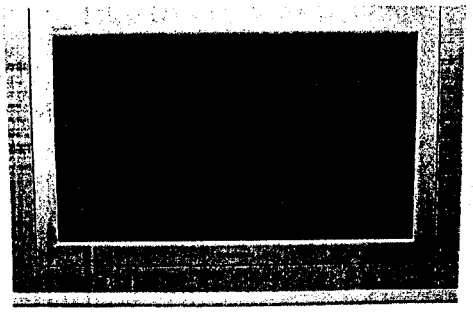
# PANASONIC TX-28DK20

MODEL

SERVICE MANUAL

ORDER No. 01-SM-012

# Service Manual



## Colour Television

## EURO- 4H Chassis

### SPECIFICATIONS

| | | |
|---|---|---|
| **Power Source:** | 220-240V a.c., 50Hz | |
| **Power Consumption:** | 124W | |
| **Standby Power Consumption:** | 1,4W | |
| **Aerial Impedance:** | 75Ω unbalanced, Coaxial Type | |
| **Receiving System:** | PAL-I, B/G, H, D/K, PAL-525/60 | |
| | SECAM B/G, D/K, L/L' | |
| | M.NTSC (AV only) | |
| | NTSC (AV only) | |
| **Receiving Channels:** | | |
| VHF E2-E12 | VHF H1-H2 (ITALY) | |
| VHF A-H (ITALY) | VHF R1-R2 | |
| VHF R3-R5 | VHF R6-R12 | |
| UHF E21-E69 | CATV (S01-S05) | |
| CATV S1-S10 (M1-M10) | CATV S11-S20 (U1-U10) | |
| CATV S21-S41 (HYPERBAND) | | |
| **Intermediate Frequency:** | | |
| Video | 38,9MHz, 33,9MHz | |
| Sound | 33,4MHz (B/G), 33,16MHz (A2) | |
| | 33,05MHz (NICAM B/G,D/K,L) | |
| | 32,4MHz (D/K),32,66MHz(CZ STEREO) | |
| | 32,9MHz (I) | |
| | 40,4MHz (L'), 39,75MHz (L'NICAM) | |
| Colour | 34,47MHz (PAL) | |
| | 34,5MHz, 34,65MHz (SECAM) | |
| | 38,3MHz, 38,15MHz (SECAM L') | |
| **Video/Audio Terminals:** | | |
| AUDIO MONITOR OUT | Audio (RCAx2) | 500mV rms1kΩ |
| AV1 IN | Video (21 pin) | 1V p-p 75Ω |
| | Audio (21 pin) | 500mV rms 10kΩ |
| | RGB (21 pin) | 0,7V p-p 75Ω |
| AV1 OUT | Video (21 pin) | 1V p-p 75Ω |
| | Audio (21 pin) | 500mV rms 1kΩ |
| AV2 IN | Video (21 pin) | 1V p-p 75Ω |
| | Audio (21 pin) | 500mV rms 10kΩ |
| | S-Video IN | Y: 1V p-p 75Ω |
| | (21 pin) | C: 0,3V p-p 75Ω |
| AV2 OUT | Video (21 pin) | 1V p-p 75Ω |
| | Audio (21 pin) | 500mV rms 1kΩ |
| AV3 IN | S-Video IN | Y: 1V p-p 75Ω |
| | (4 pin) | C: 0,3V p-p 75Ω |
| | Audio (RCAx2) | 500mV rms10kΩ |
| | Video (RCAx1) | 1V p-p 75Ω |
| **High Voltage:** | 30,5kV ±1kV | |
| **Picture Tube:** | W66EKT50X71 | 66cm |
| **Audio Output:** | 2x7W RMS, 2x15W MPO | |
| | 8Ω Impedance | |
| Headphones | 8Ω Impedance | |
| **Accessories supplied:** | Remote Control | |
| | 2 x R6 (UM3) Batteries | |
| **Dimensions:** | | |
| Height: | 508,8mm | |
| Width: | 763,2mm | |
| Depth: | 512,2mm | |
| **Net Weight:** | 42kg | |

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.
**NOTE:** This Service Manual should be used in conjunction with the EURO-4H technical guide.

### TECHNISCHE DATEN

| | | |
|---|---|---|
| **Netzspannung:** | 220-240V a.c., 50Hz | |
| **Leistungsaufnahme:** | 124W | |
| **Standby Leistungsaufnahme:** | 1,4W | |
| **Antennenimpedanz:** | 75Ω asymmetrisch, Koaxial-Typ | |
| **Empfangssystem:** | PAL-I, B/G, H, D/K, PAL-525/60 | |
| | SECAM B/G, D/K, L/L' | |
| | M.NTSC (nur AV Eingang) | |
| | NTSC (nur AV Eingang) | |
| **Empfangsbereiche:** | | |
| VHF E2-E12 | VHF H1-H2 (ITALY) | |
| VHF A-H (ITALY) | VHF R1-R2 | |
| VHF R3-R5 | VHF R6-R12 | |
| UHF E21-E69 | CATV (S01-S05) | |
| CATV S1-S10 (M1-M10) | CATV S11-S20 (U1-U10) | |
| CATV S21-S41 (HYPERBAND) | | |
| **Zwischenfrequenz:** | | |
| Video | 38,9MHz, 33,9MHz | |
| Sound | 33,4MHz (B/G), 33,16MHz (A2) | |
| | 33,05MHz (NICAM B/G,D/K,L) | |
| | 32,4MHz (D/K),32,66MHz(CZ STEREO) | |
| | 32,9MHz (I) | |
| | 40,4MHz (L'), 39,75MHz (L'NICAM) | |
| Colour | 34,47MHz (PAL) | |
| | 34,5MHz, 34,65MHz (SECAM) | |
| | 38,3MHz, 38,15MHz (SECAM L') | |
| **Video/Audio Anschlüsse:** | | |
| AUDIO MONITOR OUT | Audio (RCAx2) | 500mV rms1kΩ |
| AV1 EINGANG | Video (21 pin) | 1V p-p 75Ω |
| | Audio (21 pin) | 500mV rms 10kΩ |
| | RGB (21 pin) | 0,7V p-p 75Ω |
| AV1 AUSGANG | Video (21 pin) | 1V p-p 75Ω |
| | Audio (21 pin) | 500mV rms 1kΩ |
| AV2 EINGANG | Video (21 pin) | 1V p-p 75Ω |
| | Audio (21 pin) | 500mV rms 10kΩ |
| | S-Video IN | Y: 1V p-p 75Ω |
| | (21 pin) | C: 0,3V p-p 75Ω |
| AV2 AUSGANG | Video (21 pin) | 1V p-p 75Ω |
| | Audio (21 pin) | 500mV rms 1kΩ |
| AV3 EINGANG | S-Video IN | Y: 1V p-p 75Ω |
| | (4 pin) | C: 0,3V p-p 75Ω |
| | Audio (RCAx2) | 500mV rms10kΩ |
| | Video (RCAx1) | 1V p-p 75Ω |
| **Hochspannung:** | 30,5kV ±1kV | |
| **Bildrohre:** | W66EKT50X71 | 66cm |
| **Ton Ausgangsleistung:** | 2x7W RMS,2x15W MPO | |
| Lautsprecher | 8Ω Impedanz | |
| Kopfhörer: | 8Ω Impedanz | |
| **Mitgel. Zubehör:** | Fernbedienung | |
| | 2 x R6 (UM3) Batterien | |
| **Abmessungen:** | | |
| Höhe: | 508,8mm | |
| Breite: | 763,2mm | |
| Tiefe: | 512,2mm | |
| **Gewicht:** | 42kg | |

Änderungen der Technisichen Daten vorbehalten.
Gewichte und Abmessungen sind Näherungsangaben.
**Hinweis:** Bitte verwenden Sie das Service Manual zusammen mit dem Technical Guide.

**Panasonic**

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## SAFETY PRECAUTIONS

### GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 31,5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

### LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

## SICHERHEITSVORKEHRUNGEN

### ALLGEMEINE RICHTLINIEN

1. Es ist empfehlenswert einen Trenntransformator in die Stromversorgung zu schalten, bevor Reparaturen an einem Gerät vorgenommen werden, dessen Chassis unter Spannung steht.
2. Bei der Durchführung von Servicearbeiten dürfen die ursprünglichen Kabelanschlüsse nicht vertauscht werden. Dies gilt insbesondere für die Anschlüsse im Hochspannungsteil. Hat sich ein Kurzschluß ereignet, dann sind alle Teile, an denen Spuren von Überhitzung sichtbar sind, auszuwechseln.
3. Nach Beenden der Servicearbeiten ist sicherzustellen, daß alle Sicherheitsvorrichtungen, wie Isolationsstege, Isolationspapiere, Abschirmungen und Isolations -R-C- Glieder wieder richtig eingesetzt sind.
4. Wenn der Fernseher während längerer Zeit nicht in Betrieb gesetzt wird, sollte der Netzstecker aus der Netzsteckdose gezogen werden.
5. Im Betrieb sind Spannungen bis zu 31,5kV in diesem Gerät vorhanden. Die Inbetriebnahme des Fernsehers ohne aufgesetzte Rückwand bringt die Gefahr eines elektrischen Schlages von der Fernseher - Stromversorgung mit sich. Servicearbeiten solten daher auch nie durch Personen versucht werden, die nicht in vollem. Umfang mit den Sicherheitsvorkehrungen beim Umgang mit Hochspannungsgeräten vertraut sind. Vor der Handhabung mit der Bildröhre ist die Anode der Bildrohre immer an dem Empfängerchassis zu entladen.
6. Nach Beenden der Servicearbeiten sind die folgenden Kriechstrom-Prüfungen durchzuführen, um den Kunden vor der Gefahr eines elektrischen Schlages zu schützen.

### MESSUNG DES ISOLATIONSWIDERSTANDES IM ABGESCHALTETEN ZUSTAND

1. Den Netsztecker aus der Netzsteckdose ziehen und die beiden Steckerstifte kurzschließen.
2. Den Geräteschalter des Fernsehgerätes einschalten.
3. Mit einem Ohmmeter den Widerstandswert zwischen dem überbrückten Netzkabelsteckerund jendem zugänglichen Metallteil am Gehäuse des Fernsehgerätes, wie Schraubenköpfe, Antennen, Achsen der Regler, Griffassungen usw.messen. Wenn ein zugängliches Metallteil keine Rückleitung zum Chassis hat, Muß die Anzeige unendlich betrgen.



### LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4 V rms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

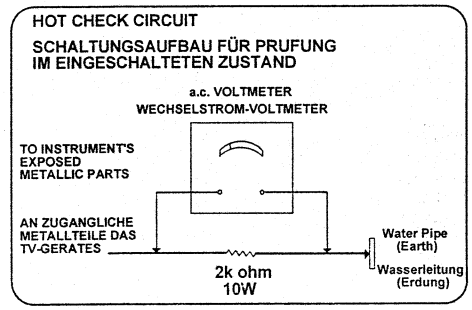



Fig. 1
Abb. 1

### X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 31,5kV without causing X-Radiation.

**NOTE : It is important to use an accurate periodically calibrated high voltage meter.**

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate: 30,5kV ± 1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

### MESSUNG DES KRIECHSTROMS IM EINGESCHALTETEN ZUSTAND

1. Den Netzstecker direkt in eine Netsteckdose stecken. Für diese Messung keinen Trenntransformator verwenden.
2. Einen 2kΩ / 10W-Widerstand in Serie mit einem von außen zugänglichen Metallteil am Fernsehgerät und einer guten, Erdung z.B Wasserleitung, anschließen.
3. Ein Wechselstrom-Voltmeter mit einem Meßbereich von 1000 Ohm.Volt oder größer verwenden, um die Spannung über den Widerstand zu messen.
4. Jedes zugängliche Metallteil prüfen, und an jedem Punkt dies Spannung messen.
5. Den Netztecker umgekehrt in die Steckdose stecken und jede der obigen Messungen wiederholen.
6. Die Spannung darf an keinem der Punkte 1,4V eff. überschreiten. Wird dieser Wert nicht eingehalten, besteht die Gefar eines elektrischen Schlages, und das Fernsehgerät sollte daher repariert und nachgeprüft werden, bevor es an den Kunden zurückgegeben wird.

### RÖNTGENSTRAHLUNG ACHTUNG :

1. Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildröhre.
2. Bei Verwendung eines Bildröhren-Prüfgerätes für den Service ist sicherzustellen, daß es für die Belastung von 31,5kV geeignet ist, ohne daß eine Röntgenstrahlung verursacht wird.

**ANMERKUNG : Es ist wichtig, daß ein präzises, regelmäßig geprüftes Voltmeter verwendet wird.**

1. Helligkeit auf Minimum stellen.
2. Die Hochspannung messen. Die Anzeige des Instrumentes sollte: 30,5kV ± 1kV. Falls die Anziege diese Toleranzgrenzen überschreitet, ist die sofortige Behebung nötig, um die Möglichkeit vorzeitigen Komponentenausfalls zu verhüten.
3. Um die Möglichkeit von Röntgenstrahlung zu begrenzen, ist es wichtig, daß nur die vorgeschriebene Bildröhre verwendet wird.

## SERVICE HINTS

HOW TO REMOVE THE REAR COVER

1. Remove the 10 screws as shown in **Fig. 2.**

## SERVICE HINWEISE

ENTFERNEN DER GERÄTERÜCKWAND

1. Die 10 Schrauben entfernen, siehe **Abb. 2.**

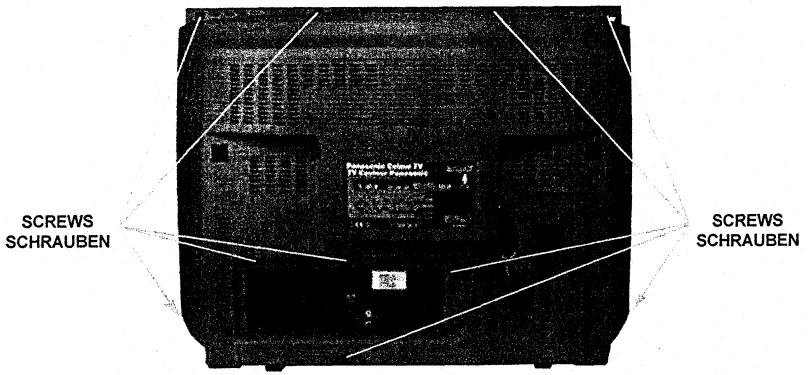



**Fig. 2**
**Abb. 2**

## LOCATION OF CONTROLS

## LAGE DER EINSTELLREGLER

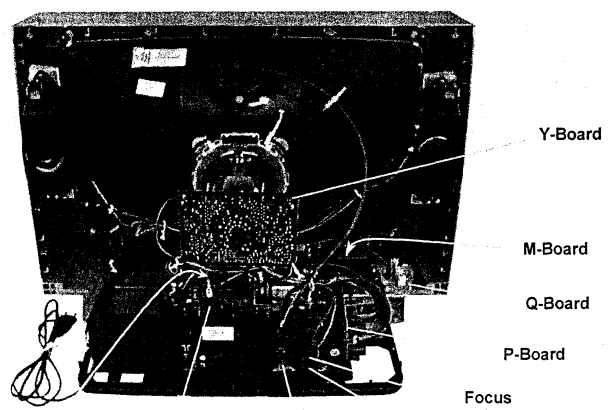



Fig. 3
Abb. 3



## HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove 2 screws **(A),** as shown in **Fig.4.**, and remove speaker assembly.
2. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in **Fig.4.**
3. Release the respective wiring clips.
4. Elevate the chassis as shown in **Fig .5.**
5. Using a speaker screw, screw the chassis frame into the top speaker fixing rib **(B),** as shown in **Fig.6**.
6. After servicing replace the speaker, and ensure all wiring is returned to its original position before returning the receiver to the customer.

## SERVICE POSITION FÜR DAS CHASSIS

1. Die 2 Schrauben **(A)** entfernen, wie in **Abb.4.** dargestellt, und die Lautsprechereinheit herausnehmen.
2. Das Chassis leicht anheben und nach hinten herausziehen, wie in **Abb. 4.** dargestellt.
3. Entsprechende Kabelklemmen losmachen.
4. Das Chassis, wie in **Abb. 5.** gezeigt, herausheben.
5. Mit einer Lautsprecherschraube den Chassisrahmen durch das Langloch auf der rechten Seite des Rahmens im oberen Befestigungsloch des Latsprechers fixieren. Siehe **Abb.6.**
6. Nach Beendigung der Reparatur ist sicherzustellen, daß sich alle Kabel in ihrer ursprünglichen Position befinden.

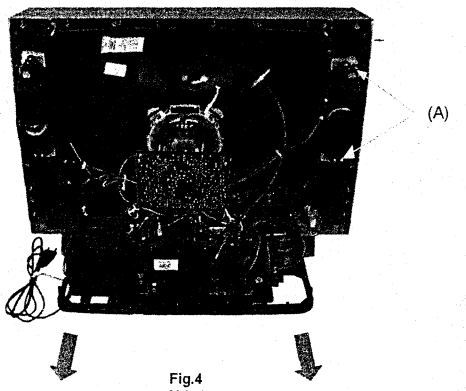



**Fig.4**
**Abb.4**

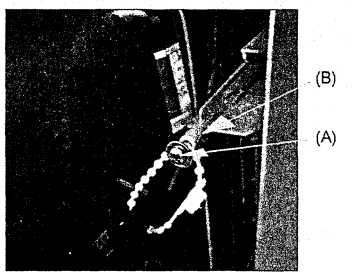
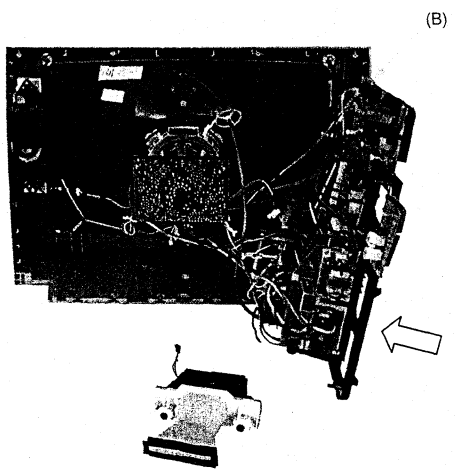



**Fig.6.**
**Abb.6.**



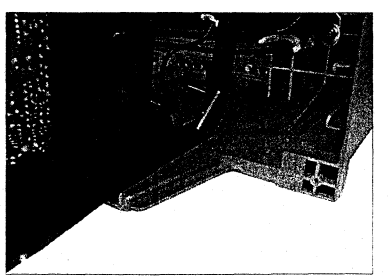



Fig.5
Abb.5

## SELF CHECK

1. Self-check is used to automatically check the bus lines and hexadecimal code of the TV set.

2. To get into the Self-Check mode press the **STATUS** button on the remote control and at the same time press the down (**-/v**) button on the customer controls at the front of the set, and the screen will show :

## SELBSTDIAGNOSE

1. Die Selbstdiagnose dient zum automatischen Prüfen der Bus-Leitungen sowie des Hexadezimalcodes des FS-Geräts. Zum Umschalten auf Selbstdiagnose zunächst die Taste "**STATUS**" auf der Fernbedienung und gleichzeitig die-Taste am Bedienteil des FS-Gerätes drücken (**-/v**), auf dem Bildschirm erscheint hierauf :

2. Nach der Selbstdiagnose wird das Gerät automatisch auf sämtliche werksseitigen Standardeinstellungen zurückgesetzt :

| | | | |
|---|---|---|---|
| VPC | O.K. | PCB | O.K. |
| CIP | O.K. | CAB | O.K. |
| SRC | O.K. | | |
| DDP | O.K. | | |
| TUN | O.K. | | |
| E2 | O.K. | | |
| MSP | O.K. | | |
| DPL | - - - | | |

| **TX-28PL10D:** | | **TX-28PL10F:** | |
|---|---|---|---|
| OPTION1 | 39 | OPTION1 | 39 |
| OPTION2 | 7F | OPTION2 | 7F |
| OPTION3 | 0F | OPTION3 | 0F |
| OPTION4 | 40 | OPTION4 | 40 |
| OPTION5 | FF | OPTION5 | FD |
| OPTION6 | A5 | OPTION6 | A5 |

If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".
Wenn der Hauptprozesser (CCU) an den Anschlüssen einen Fehler erkennt, oder der entsprechende Anschluss nicht belegt ist, zeigt die entsprechende Position " - - " anstelle von OK an.

### Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

- **LUCI** interface kit (**L**inked **U**tility **C**omputer **I**nterface)
  Part number: TZS6EZ002
  This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.

- **VICI** (**V**isual **I**nteractive **C**omputer **I**nformation)
  These C.D.'s contain multimedia documentation providing quick access to service information.
  Part No.
  TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001
  1. Service Manuals
  2. Instruction Books
  3. Technical Information

- **TASMIN** (**T**echnically **A**dvanced **S**ystem for **M**ultimedia **I**nteractive **N**otes)
  As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

- Extended cable kit Y2-E8 connector for service position (Fig.6.). Part No.: TZS9EK012.

### Service-Hilfen

Zur Unterstützung der Servicearbeiten stehen weitere Hilfsmittel zur Verfügung.

- **LUCI** interface kit (PC-unterstütztes Diagnosesystem)
  Bestell-Nr.: TZS6EZ002
  Es beinhaltet ein Interface, die Anschlusskabel zum FS-Gerät und die Diagnose-Software. Bei Einführung von neuen Modellen ist ein Update der Software jederzeit möglich.

- **VICI** (Interaktive CD-ROM) mit schnellem Zugiff auf Serviceinformationen.
  Bestell-Nr.:
  TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001
  1. Service Manuals
  2. Bedienungsanleitungen
  3. Technical Information

- **TASMIN** (Technisch erweitertes System für interaktive Multimedia-Hinweise und Notizen)
  Genauso wie dieses Produkt einen ersten Schritt in Richtung erweitertes interaktives Training bereitstellt, ermöglicht es einen noch schnelleren Zugang zu technischen Informationen.

- Verlängerungskabelvorrichtung zur Verbindung Y2-E8 (Abb.6.); Bestell-Nr.: TZS9EK012.



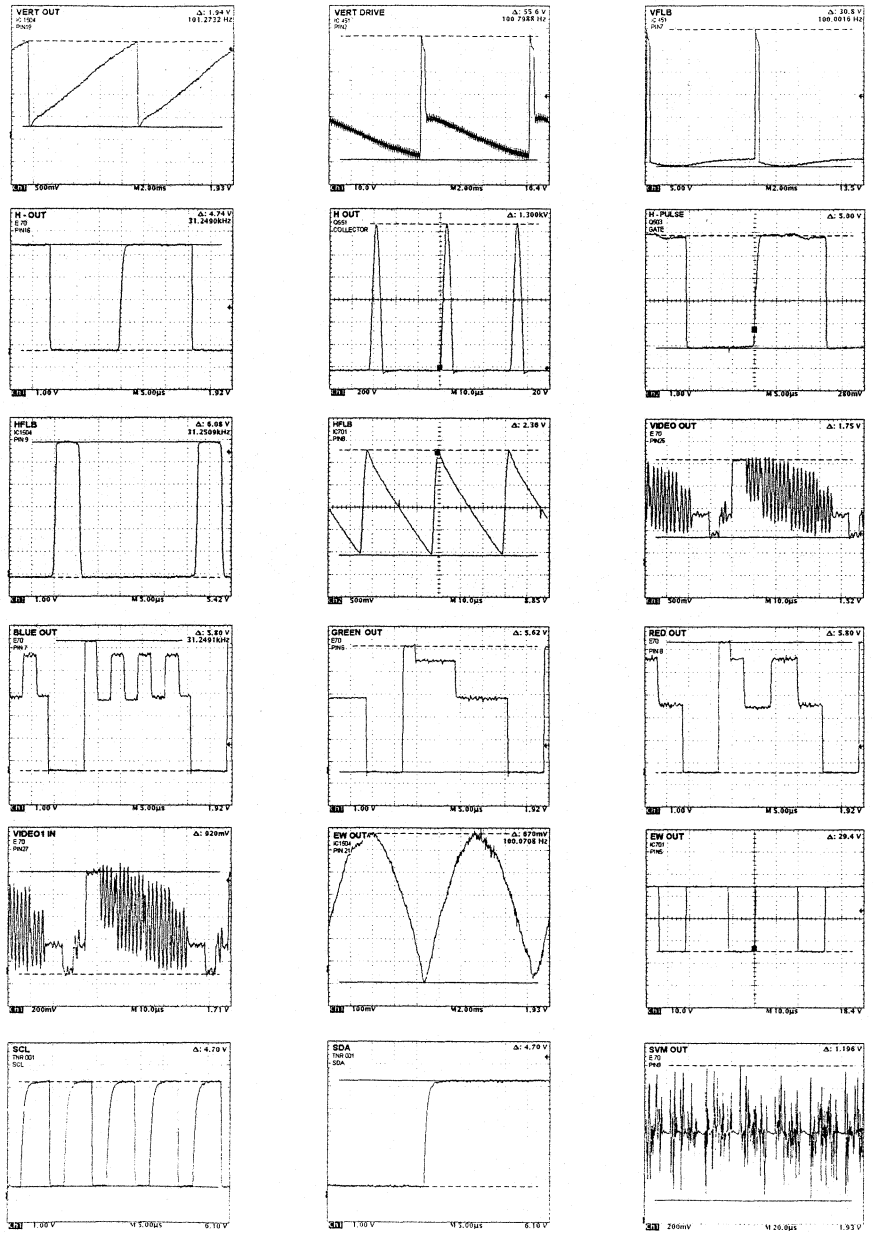
## ADJUSTMENT PROCEDURE

| Item/Preparation | Adjustments |
|---|---|
| **+B SET-UP**<br>1. Receive a Greyscale signal.<br>2. Set the controls:-<br>Brightness: Minimum<br>Contrast: Minimum<br>Volume: Minimum | 1. Confirm the following voltages.<br>**B2** 148 ± 2V<br>**B9** 5 ± 0,25V **B10** 5 ± 0,25V<br>**B5** 12 ± 0,5V **B11** 33 ± 1,5V<br>**B4** 15 ± 1V **B7** 8 ± 0,5V<br>**B12** 26 ± 2V **B8** 7 ± 1V<br>**B3** 36 ± 1,5V **B13** 16 ± 1V<br>**B1** 205 ± 10V **B14** -14 ± 1V |
| **Cut-Off / Ug2 Test**<br>1. Receive a Greyscale signal.<br>2. Degauss the tube externally.<br>3. Set the TV into Service Mode 1.<br>4. Select Cutoff mode. | Connect an oscilloscope to the Blue cathode, adjust "Screen" until the black level is 155V±3V. Remove the oscilloscope. |

## ABGLEICH

| Vorbereitungen | Abgleich |
|---|---|
| **+B - Abgleich**<br>1. Testbild empfangen.<br>Helligkeit auf: Minimum<br>Kontrast auf: Minimum<br>Lautstärke: Minimum | 1. Folgende Spannungen sind zu überprüfen.<br>**B2** 148 ± 2V<br>**B9** 5 ± 0,25V **B10** 5 ± 0,25V<br>**B5** 12 ± 0,5V **B11** 33 ± 1,5V<br>**B4** 15 ± 1V **B7** 8 ± 0,5V<br>**B12** 26 ± 2V **B8** 7 ± 1V<br>**B3** 36 ± 1,5V **B13** 16 ± 1V<br>**B1** 205 ± 10V **B14** -14 ± 1V |
| **Cut-Off / Ug2 Test**<br>1. Testbild empfangen.<br>2. Bildröhre entmagnetisieren.<br>3. Service-Mode 1 anwählen.<br>4. Im Service-Mode den Abgleichpunkt Cutoff DC-Mode wählen. | Das Oszilloskop an blaue Kathode anschließen, den Wert „SCREEN" so einstellen, dass das schwarze Niveau 155 ± 3V beträgt. Das Oszilloskop abschalten. |

## WAVEFORM PATTERN TABLE SIGNAL TABELLE



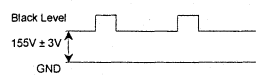

CONDITIONS: CONTRAST...MAX, BRIGHTNESS...MID, COLOUR...MID, SHARPNESS...MID



## ALIGNMENT SETTINGS:

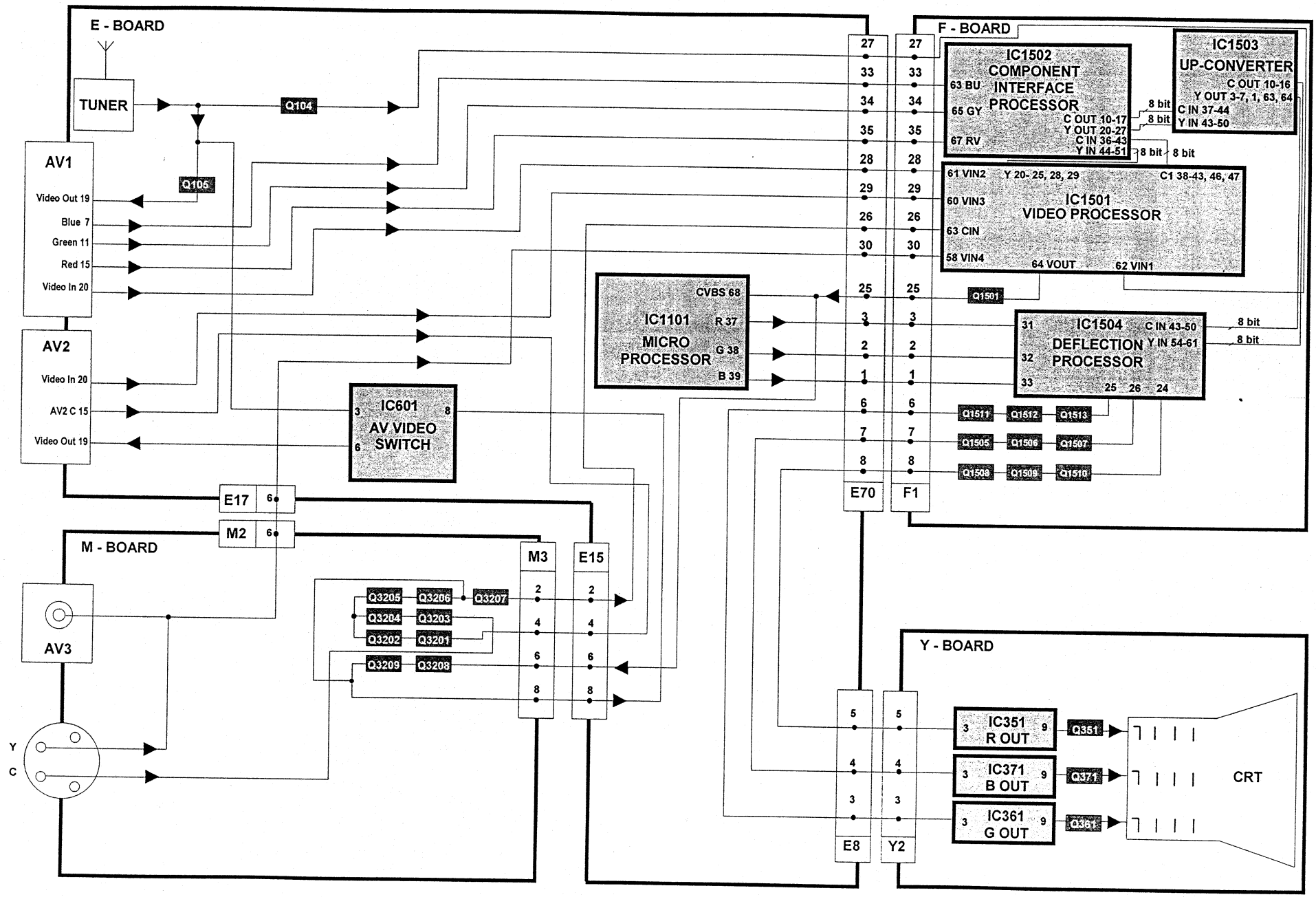
(The figures below are nominal and used for representative purposes only.)

1. Set the Bass to maximum position, set the Treble to minimum position, set the Volume to minimum then press the down button (**-/v**) on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode.
2. Press the **RED / GREEN** buttons to step up / down through the functions.
3. Press the **YELLOW / BLUE** buttons to alter the function values.
4. Press the **STR** button after each adjustment has been made to store the required values.
5. To exit the Service Mode, press the "**N**" button.

| Alignment Function | | Settings / Special features |
|---|---|---|
| Horizontal Position | H-Pos<br>061 | Optimum setting. |
| Vertical Position | V-Pos<br>005 | Optimum setting. |
| Horizontal Amplitude | H-Amp<br>055 | Optimum setting. |
| Vert. Amplitude | V- Amp<br>054 | Optimum setting. |
| EW-amplitude | EW-Amp1<br>- 030 | Optimum setting. |
| Lower corner | Lower corner<br>007 | Optimum setting. |
| Trapezium-comp | Trapez 1<br>047 | Optimum setting. |
| Upper corner | Upper corner<br>006 | Optimum setting. |
| Vertical Linearity | V-Lin<br>006 | Optimum setting. |
| Vertical Symmetry | V-Sym<br>002 | Optimum setting. |
| Angle | Angle<br>000 | Optimum setting. |
| Bow | Bow<br>005 | Optimum setting. |
| DVCO | DVCO<br>- 005 | Receive a PAL Colour Bar Pattern. For DVCO alignment press "**Blue**" button, wait until the colours are changing slowly and press "**STR**". |
| Cut-off DC | Cut-off<br>0100 | Connect an oscilloscope to the blue cathode, adjust "**Screen**" value until the black level is 155V±3V. Remove the oscilloscope. |
| Ug2 Test | Ug2<br>0101<br>O.K. |  |
| Highlight<br>Lowlight | High 0396 0357 0374<br>Low 0117 0132 0112 | Optimum setting. |
| Sub-Brightness | Sub-Brightness<br>000 | Optimum setting. |

# VIDEO BLOCK DIAGRAM

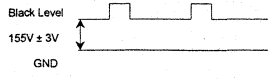
# BILDSIGNAL BLOCKSCHEMA



# ABGLEICHTABELLE

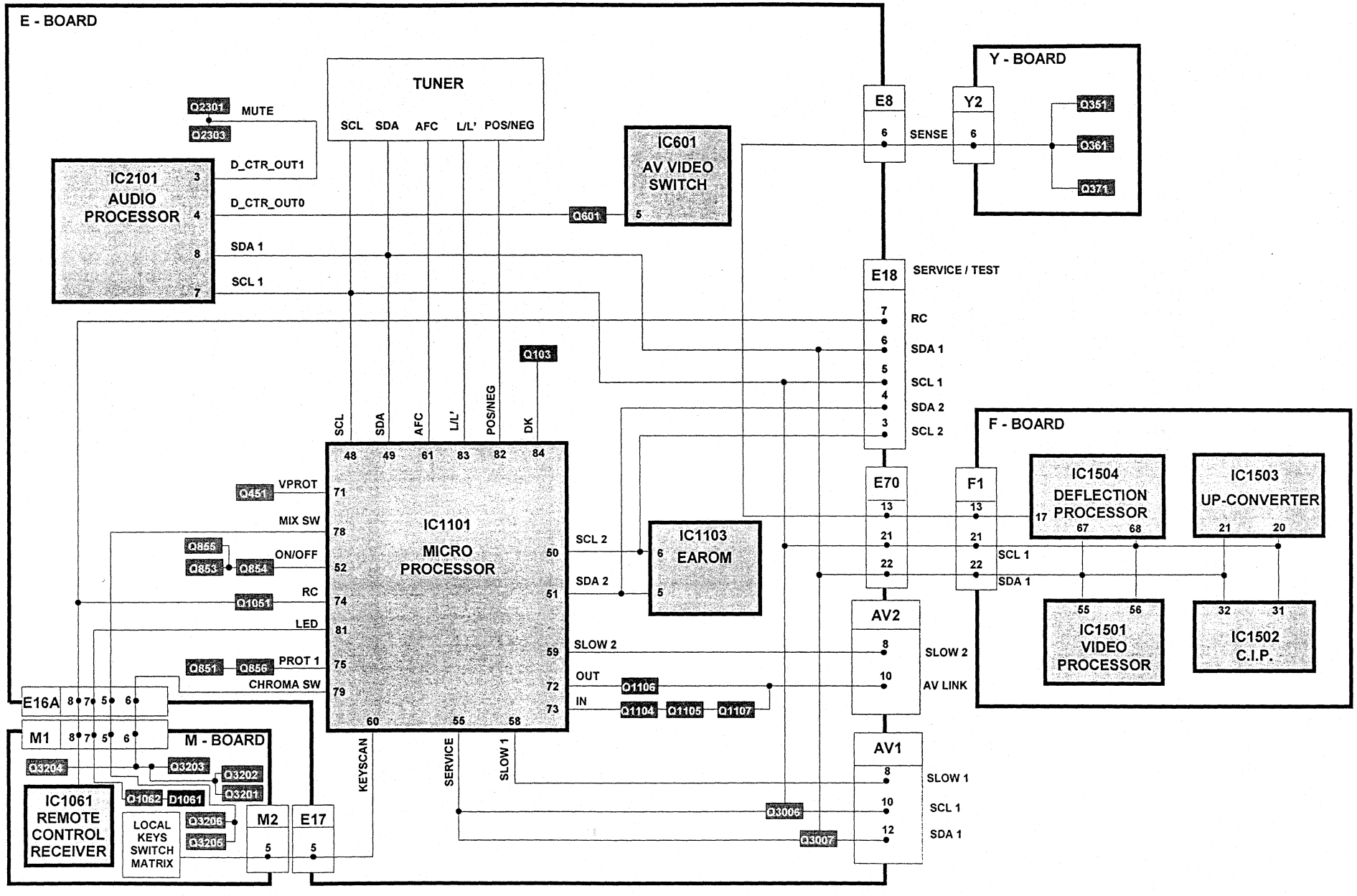
(Die angegebenen Werte sind Mittelwerte und Können individuell nach oben oder unten nach dem korrekten Abgleich abweichen.)

1. Um in den Service-Mode zu gelangen, gehen sie bitte wie folgt vor.
2. Stellen sie im Toneinstellungs-Menü die Bässe auf Maximun, die Höhen auf Minimum und die Lautstärke auf Minimum.
3. Halten sie die **INDEX**-Taste auf der Fernbedienung gedrückt und drücken zusätzlich die Taste **-/v** im Bedienteil des TV-Gerätes. Auf dem Bildschirm erscheint die entsprechende Anzeige für den Service-Mode.
4. Die einzelnen Funktionen mit Hilfe der **ROTEN** und **GRÜNEN** Taste anwählen.
5. Mit der **GELBEN** und **BLAUEN** Taste die Werte der einzelnen Funktionen ändern.
6. Nach jeder Einstellung die Taste **STR** auf der Fernbedienung drücken, um die geänderten Werte abzuspeichern.
7. Zum Verlassen des Service-Modus die "**N**" - Taste auf der Fernbedienung drücken.

| **Abgleichfunktion** | | **Einstellung / Besondere Merkmale** |
|---|---|---|
| Horizontale position | H-Pos<br>061 | Optimale Einstellung. |
| Vertikale Position | V-Pos<br>005 | Optimale Einstellung. |
| Horizontale Amplitude | H-Amp<br>055 | Optimale Einstellung. |
| Vertikale Amplitude | V-Amp<br>054 | Optimale Einstellung. |
| OW-amplitude | EW-Amp1<br>- 030 | Optimale Einstellung. |
| Lower corner | Lower corner<br>007 | Optimale Einstellung. |
| Trapez-Kompensation | Trapez 1<br>047 | Optimale Einstellung. |
| Upper corner | Upper corner<br>006 | Optimale Einstellung. |
| Vertikale linearität | V-Lin<br>006 | Optimale Einstellung. |
| Vertikale Symmetrie | V-Sym<br>002 | Optimale Einstellung. |
| Angle | Angle<br>000 | Optimale Einstellung. |
| Bow | Bow<br>005 | Optimale Einstellung. |
| DVCO | DVCO<br>- 005 | Ein Farbbalken-Testbild empfangen. Zum Abgleich des Farboszillators (DVCO) die **blau** Taste drücken. Nachdem ein leichtes Flackern in den Farbbalken zum Stillstand gekommen ist, die **STR**-Taste drücken. |
| Cut-off | Cut-off<br>0100 | Das Oszilloskop an blaue Kathode anschließen, den Wert „SCREEN" so einstellen, dass das schwarze Niveau 155 ± 3V beträgt. Das Oszilloskop abschalten.<br>  <br> |
| Ug2 Test | Ug2<br>0101<br>O.K. | |
| Highlight<br>Lowlight | High 0396 0357 0374<br>Low 0117 0132 0112 | Optimale Einstellung. |
| Sub-Brightness | Sub-Brightness<br>000 | Optimale Einstellung. |

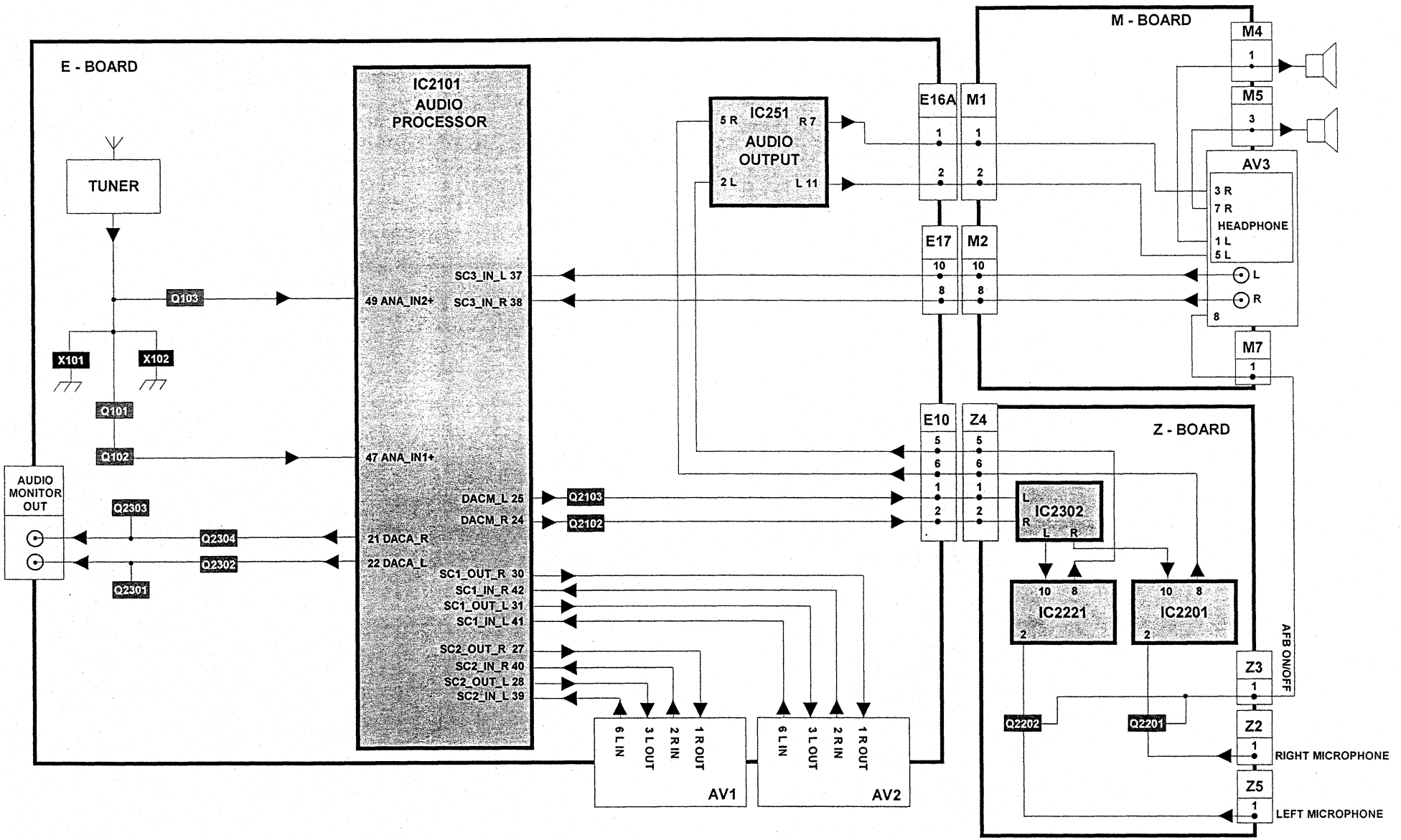
# CONTROL BLOCK DIAGRAM

# KONTROLL BLOCKSCHEMA



# AUDIO BLOCK DIAGRAM

# TONSIGNAL BLOCKSCHEMA

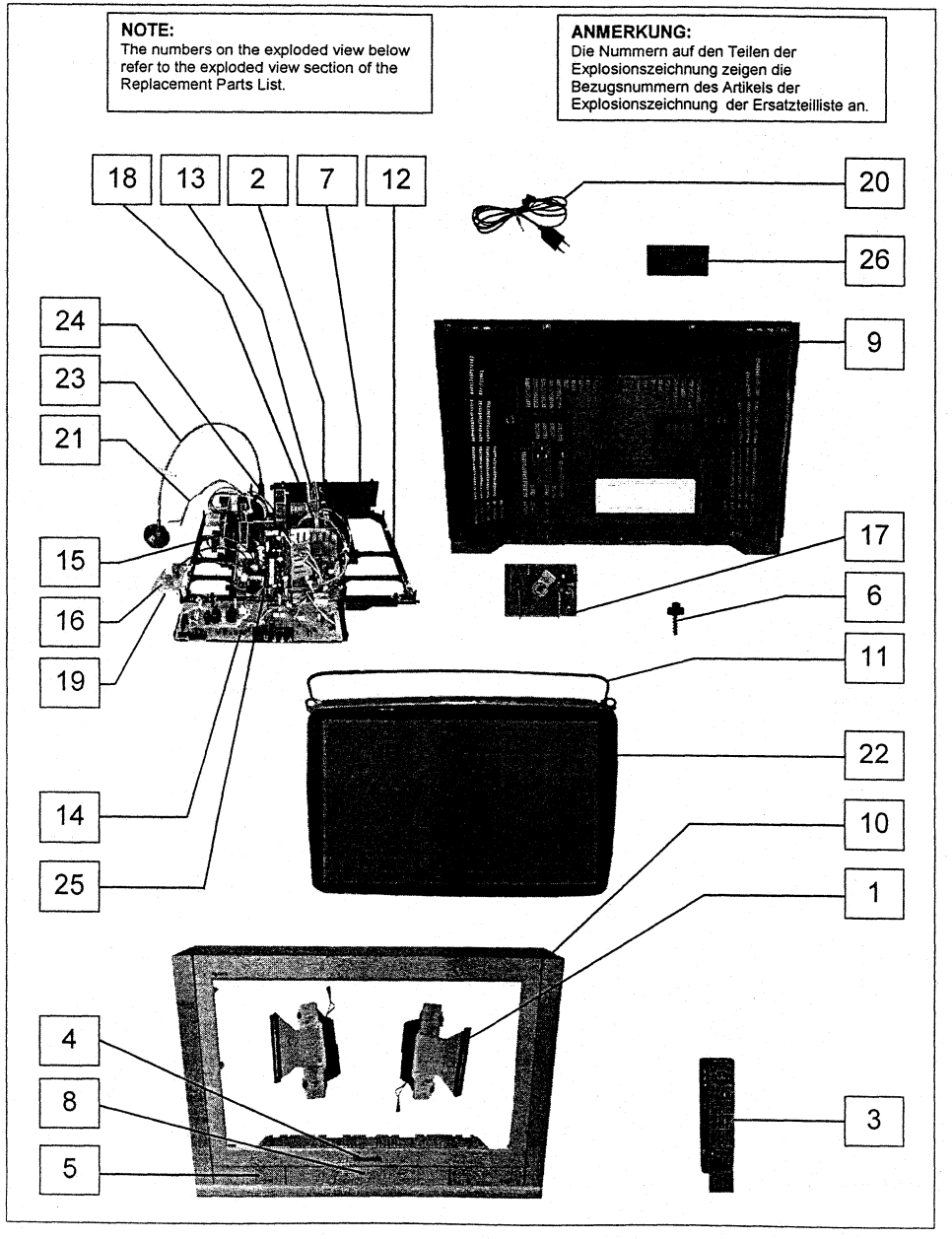


# PARTS LOCATION

# EXPLOSIONSZEICHNUNG

**NOTE:**
The numbers on the exploded view below refer to the exploded view section of the Replacement Parts List.

**ANMERKUNG:**
Die Nummern auf den Teilen der Explosionszeichnung zeigen die Bezugsnummern des Artikels der Explosionszeichnung der Ersatzteilliste an.






# REPLACEMENT PARTS LIST

**Important Safety Notice**
Components Identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturers specified parts.
* In case of ordering these spare parts, please always add the complete Model-Type number to your order.

| Cct Ref | Parts Number | Description | |
|---|---|---|---|
| **COMMON PARTS** | | | |
| **EXPLODED VIEW** | | | |
| 1 | EABG12506C2 | SPEAKER | |
| 2 | ENG29505GR | TUNER | |
| 3 | EUR511211 | REMOTE CONTROL | |
| 4 | TBMA060 | PANASONIC BADGE | |
| 5 | TBX8E089-2 | POWER BUTTON | |
| 6 | THT1062 | CRT FIXING SCREW | |
| 7 | TKP0E10101 | REAR AV COVER | |
| 8 | TKP8E1430 | DOOR LID | |
| 9 | TKU8E00682 | BACK COVER | ⚠ |
| 10 | TKY8E561-1 | CABINET | |
| 11 | TLK0E9006 | DEGAUSS COIL | ⚠ |
| 12 | TMX8E036-2 | CHASSIS FRAME | |
| 13 | TNP8EF007AC | F P.C.B. | ⚠ |
| 14 | TNP8EM025AD | M P.C.B. | ⚠ |
| 15 | TNP8EP017AU | P P.C.B. | ⚠ |
| 16 | TNP8EQ002AH | Q P.C.B. | ⚠ |
| 17 | TNP8EY018BB | Y P.C.B. | ⚠ |
| 18 | TNP8EZ003AH | Z P.C.B. | ⚠ |
| 19 | TUX8E053 | METAL FRAME | |
| 20 | TXASX01CTYG1 | AC CORD ASSY | ⚠ |
| 21 | TXJ/FC0DEG1 | FOCUS LEAD ASSY | ⚠ |
| 22 | W66EKT50X71 | CRT | ⚠ |
| 23 | ZTBZAD550A | ANODE CABLE | ⚠ |
| 24 | ZTFM05010A | F.B.T. | ⚠ |
| **MISCELLANEOUS COMPONENTS** | | | |
| . | R6RC/2P | BATTERY | |
| . | TBLG3019 | SET FOOT (FRONT) | |
| . | TBLG3020 | SET FOOT (REAR) | |
| . | TBM8E2137 | PRESET LABEL | |
| . | TBM8E2138 | PRESET LABEL | |
| . | TEK6935 | LID SWITCH | |
| . | TES8E20 | POWER BUTTON SPRING | |
| . | TKK0E9501 | SPEAKER REFLECTOR | |
| . | TKP8E1370 | SPEAKER PANEL L | |
| . | TKP8E1375 | SPEAKER PANEL P | |
| . | TKP8E1380-1 | BOTTOM PANEL L | |
| . | TKP8E1390 | BOTTOM PANEL R | |
| . | TKP8E1431-1 | LED COVER | |
| . | TMK8E169 | MICA SHEET | |
| . | TMK8E171 | SPEAKER FOAM | |
| . | TMMJ031P | RUBBER DAMPER | |
| . | TMW8E045-1 | CONTROL BRACKET | |
| . | TMW8E050 | LED HOLDER | |
| . | TPC8E4905 | CARTON ASSY | |

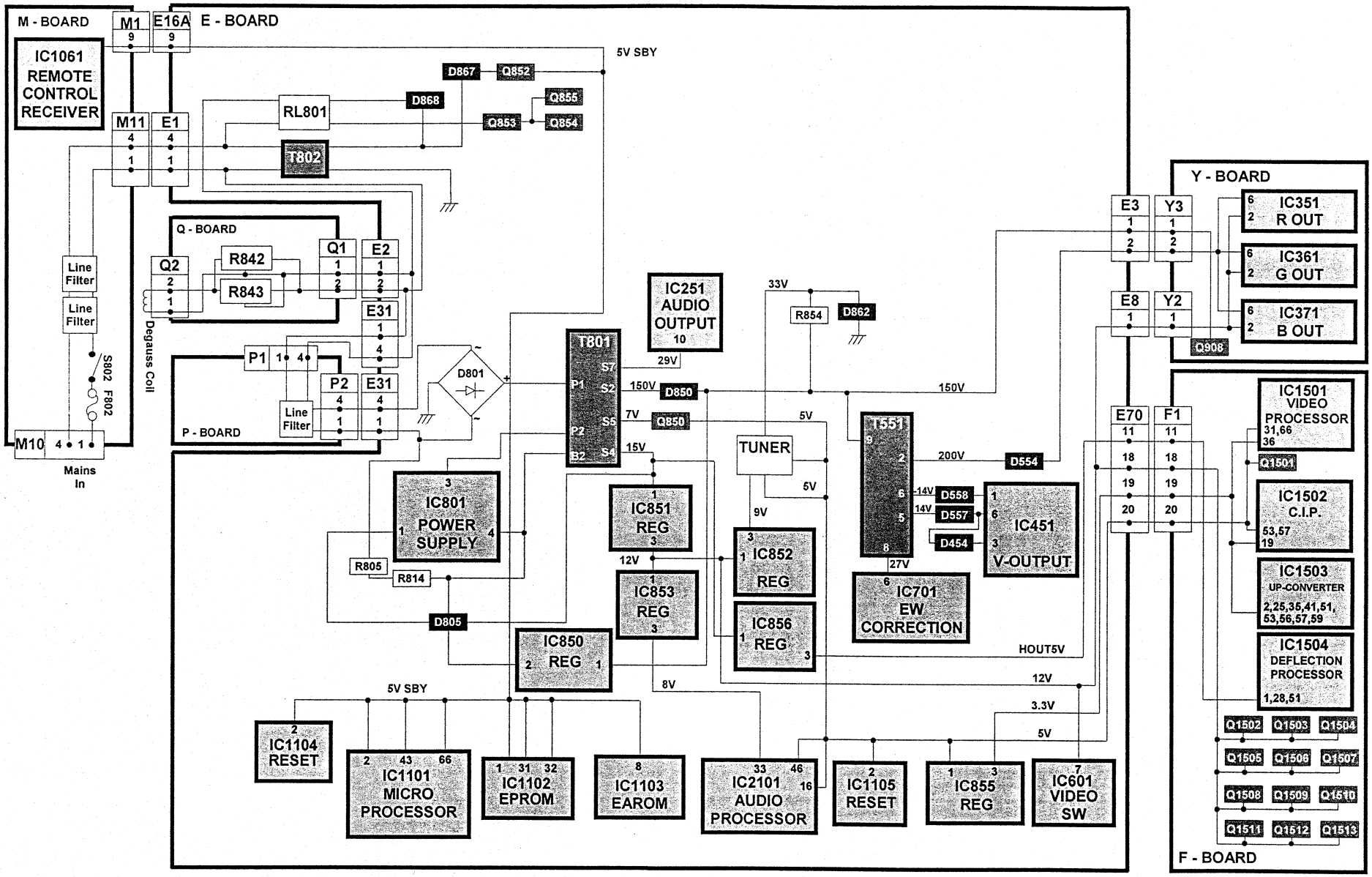
# ERSATZTEILLISTE

**Wichtiger Sicherhitshinweis**
Teile, die mit einen Hinweis ⚠ gekennzeichnet sind wichtig für die Sicherhet. Solite ein Auswechsein erfordelrich sein, sind unbdingt Originalteile einzusetzen.
Bei der Bestellung von Ersatzteilen, di mit * gekennzeichnet sind, geben Sie bitte unbedingt die vollständige Typenbezeicnung mit an.

| Cct Ref | Parts Number | Description | |
|---|---|---|---|
| . | TPD8E757 | TOP CUSHION | |
| . | TPD8E758 | BOTTOM CUSHION | |
| DEGC | TLK0E9008 | ROTATION COIL | |
| IC1101S | PCSZT-084A-1 | IC SOCKET | |
| PCH2 | TMX8E041-1 | SUPPORTBRACKET | |
| **I.C.s** | | | |
| IC251 | LA4282 | AUDIO OUTPUT | |
| IC351 | TDA6111Q/N4 | RGB OUTPUT | |
| IC361 | TDA6111Q/N4 | RGB OUTPUT | |
| IC371 | TDA6111Q/N4 | RGB OUTPUT | |
| IC381 | TL431CLPM | REGULATOR | |
| IC451 | LA7845N | VERTICAL OUTPUT | |
| IC601 | TEA2114 | VIDEO SWITCHING | |
| IC701 | TEA2031A | E/W CORRECTION | |
| IC801 | STRF6656LF57 | POWER SUPPLY | |
| IC850 | SE140NLF4 | ERROR IC | |
| IC851 | BA12T | 12V REGULATOR | |
| IC852 | AN78M09LB1 | 9V REGULATOR | |
| IC853 | AN78L08TA | 8V REGULATOR | |
| IC855 | BA033T | 3.3V REGULATOR | |
| IC856 | AN7805LB | 5V REGULATOR | |
| IC1061 | RPM-6937 | LED RECEIVER | |
| IC1101 | SDA5450C59 | MICRO PROCESSOR | |
| IC1102 | M27C2000PC12 | EPROM * | |
| IC1103 | BR24C16 | EAROM | |
| IC1104 | MN1381-R(TA) | RESET | |
| IC1105 | MN1381-T(TA) | RESET | |
| IC1501 | VPC3215CB8TP | VIDEO PROCESSOR | |
| IC1502 | CIP3250APSB1 | C.I.P. | |
| IC1503 | SDA9400 | MICRO PROCESSOR | |
| IC1504 | DDP3310BPSE4 | VIDEO PROCESSOR | |
| IC1900 | LA6515 | EARTH CORRECTION | |
| IC2101 | MSP3410DPOC5 | AUDIO PROCESSOR | |
| IC2201 | AN6554NSF-E2 | OPERATIONAL AMPLIFIER | |
| IC2221 | AN6554NSF-E2 | OPERATIONAL AMPLIFIER | |
| IC2302 | BA15218F-E2 | AMPLIFIER | |
| **FUSES** | | | |
| F802-1 | EYF52BC | FUSE HOLDER | |
| F802-2 | EYF52BC | FUSE HOLDER | |
| F802 | S5055AC | FUSE | ⚠ |
| **DIODES** | | | |
| D101 | MA3020TX | DIODE | |
| D102 | MA3020TX | DIODE | |
| D251 | TYMD0002 | DIODE | |
| D253 | MA700TA | DIODE | |
| D254 | MA700TA | DIODE | |
| D351 | ERA15-04V3 | DIODE | |
| D352 | ERA15-04V3 | DIODE | |
| D361 | ERA15-04V3 | DIODE | |
| D362 | ERA15-04V3 | DIODE | |
| D371 | ERA15-04V3 | DIODE | |
| D372 | ERA15-04V3 | DIODE | |

# POWER SUPPLY BLOCK DIAGRAM

# STROMVERSORGUNGS BLOCKSCHEMA



| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| **CRYSTALS** | | | | | |
| X1101 | AI060006AD | CRYSTAL | | | |
| X1501 | 4730007267 | CRYSTAL | | | |
| X1502 | 4730007341 | CRYSTAL | | | |
| X2101 | 4730007158 | CRYSTAL | | | |
| **RESISTORS** | | | | | |
| C510 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| C2214 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| C2234 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA1 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA2 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA3 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA4 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA5 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA6 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA7 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA8 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA9 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA10 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA10 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA12 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA13 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA13 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA14 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA15 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA16 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA17 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA18 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA18 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA19 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA19 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA20 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA20 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA101 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA102 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA103 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA104 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA105 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA106 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA107 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA108 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA109 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA110 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA111 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA112 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA113 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA114 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA115 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA116 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA117 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA118 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA119 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA200 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA201 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA202 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA204 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JA205 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA206 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JSE10 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE12 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE13 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE18 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE26 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE33 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE35 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE42 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |

| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| JSE43 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE48 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JSE49 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JSF1 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JSF2 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JSF3 | ERJ8GEY0R00V | S.M.CARB | 0.125 | 5% | 0 Ω |
| JSM7 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSM8 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSM10 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSY04 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R101 | ERJ6GEYJ331V | S.M.CARB | 0.1W | 5% | 330 Ω |
| R102 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R103 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R104 | ERJ6GEYJ331V | S.M.CARB | 0.1W | 5% | 330 Ω |
| R105 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R106 | ERJ6GEYJ680V | S.M.CARB | 0.1W | 5% | 68 Ω |
| R107 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R108 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R109 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R110 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R111 | ERJ6GEYJ393V | S.M.CARB | 0.1W | 5% | 39K Ω |
| R112 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R113 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R116 | ERJ6GEYJ562V | S.M.CARB | 0.1W | 5% | 5K6 Ω |
| R117 | ERJ6GEYJ222V | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R118 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R121 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R251 | ERJ6GEYJ680V | S.M.CARB | 0.1W | 5% | 68 Ω |
| R252 | ERJ6GEYJ152V | S.M.CARB | 0.1W | 5% | 1K5 Ω |
| R253 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R254 | ERJ6GEYJ680V | S.M.CARB | 0.1W | 5% | 68 Ω |
| R255 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R256 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R257 | ERJ6GEYJ680V | S.M.CARB | 0.1W | 5% | 68 Ω |
| R258 | ERJ6GEYJ152V | S.M.CARB | 0.1W | 5% | 1K5 Ω |
| R259 | ERJ6GEYJ680V | S.M.CARB | 0.1W | 5% | 68 Ω |
| R260 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R261 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R262 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R263 | ERJ6GEYJ473V | S.M.CARB | 0.1W | 5% | 47K Ω |
| R264 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R265 | ERDS2TJ2R2T | CARBON | 0.25W | 5% | 2R2 Ω |
| R266 | ERDS2TJ2R2T | CARBON | 0.25W | 5% | 2R2 Ω |
| R267 | ERF7ZK4R7 | WOUND | 7W | 10% | 4R7 Ω |
| R268 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R269 | ERQ14AJ101P | METAL | 0.25W | 5% | 100 Ω |
| R271 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R272 | ERF7ZK4R7 | WOUND | 7W | 10% | 4R7 Ω |
| R350 | ERQ12AJ151P | FUSIBLE | 0.5W | 5% | 150 Ω |
| R352 | ERJ6GEYJ202V | S.M.CARB | 0.1W | 5% | 2K Ω |
| R355 | ERG1ANJP683H | METAL | 0.5W | 5% | 68K Ω |
| R356 | ERJ6GEYJ181V | S.M.CARB | 0.1W | 5% | 180 Ω |
| R357 | ERJ6GEYJ822V | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R358 | ERDS1TJ821V | CARBON | 0.5W | 5% | 820 Ω |
| R360 | ERO50PKF8251 | METAL | 0.5W | 5% | 8M2 Ω |
| R362 | ERJ6GEYJ202V | S.M.CARB | 0.1W | 5% | 2K Ω |
| R365 | ERG1ANJP683H | METAL | 0.5W | 5% | 68K Ω |
| R366 | ERJ6GEYJ181V | S.M.CARB | 0.1W | 5% | 180 Ω |
| R367 | ERJ6GEYJ822V | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R368 | ERDS1TJ821V | CARBON | 0.5W | 5% | 820 Ω |
| R372 | ERJ6GEYJ202V | S.M.CARB | 0.1W | 5% | 2K Ω |
| R375 | ERG1ANJP683H | METAL | 0.5W | 5% | 68K Ω |
| R376 | ERJ6GEYJ181V | S.M.CARB | 0.1W | 5% | 180 Ω |
| R377 | ERJ6GEYJ822V | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R378 | ERDS1TJ821V | CARBON | 0.5W | 5% | 820 Ω |
| R382 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |



| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| R383 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R385 | ERQ12HJ1R2P | METAL | 0.5W | 5% | 1R2 Ω |
| R394 | ERJ6GEYJ821V | S.M.CARB | 0.1W | 5% | 820 Ω |
| R396 | ERJ6GEYJ821V | S.M.CARB | 0.1W | 5% | 820 Ω |
| R398 | ERJ6GEYJ821V | S.M.CARB | 0.1W | 5% | 820 Ω |
| R451 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R452 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R453 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R454 | ERJ6GEYJ393V | S.M.CARB | 0.1W | 5% | 39K Ω |
| R455 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R456 | ERJ6GEYJ104V | S.M.CARB | 0.1W | 5% | 100K Ω |
| R457 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R458 | ERDS1TJ1R0T | CARBON | 0.5W | 5% | 1 Ω |
| R459 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R460 | ERG1SJ221P | METAL | 1W | 5% | 220 Ω |
| R461 | ERX2SJS1R5H | FUSIBLE | 2W | 5% | 1R5 Ω |
| R463 | ERDS2TJ222T | CARBON | 0.5W | 5% | 2K2 Ω |
| R464 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R465 | ERJ6GEYJ821V | S.M.CARB | 0.1W | 5% | 820 Ω |
| R467 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R502 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R503 | ERJ6GEYJ105V | S.M.CARB | 0.1W | 5% | 1M Ω |
| R507 | ERX3SJS4R7H | METAL | 3W | 5% | 4R7 Ω |
| R509 | ERG1SJ272E | METAL | 1W | 5% | 2K7 Ω |
| R510 | ERG1SJ272E | METAL | 1W | 5% | 2K7 Ω |
| R551 | ERX3SJSR22H | METAL | 3W | 5% | R22 Ω |
| R555 | ERQ12HKR82P | FUSIBLE | 0.5W | 10% | R82 Ω |
| R558 | ERDS1TJ124T | CARBON | 0.5W | 5% | 120K Ω |
| R559 | ERQ12HKR82P | FUSIBLE | 0.5W | 10% | R82 Ω |
| R560 | ERJ6GEYJ274V | S.M.CARB | 0.1W | 5% | 270K Ω |
| R561 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R563 | ERJ6GEYJ564V | S.M.CARB | 0.1W | 5% | 560K Ω |
| R564 | ERJ6GEYJ273V | S.M.CARB | 0.1W | 5% | 27K Ω |
| R566 | ERJ6GEYJ563V | S.M.CARB | 0.1W | 5% | 56K Ω |
| R567 | ERF7ZK1R0 | WOUND | 7W | 10% | 1 Ω |
| R568 | ERDS1TJ120T | CARBON | 0.5W | 5% | 12 Ω |
| R569 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R571 | ERJ6GEYJ104V | S.M.CARB | 0.1W | 5% | 100K Ω |
| R572 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R573 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R581 | ERG3FJ331H | METAL | 3W | 5% | 330 Ω |
| R582 | ERG3FJ471H | METAL | 3W | 5% | 470 Ω |
| R583 | ERG3FJ821H | METAL | 3W | 5% | 820 Ω |
| R603 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R604 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R605 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R606 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R607 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R608 | ERJ6GEYJ201V | S.M.CARB | 0.1W | 5% | 200 Ω |
| R609 | ERJ6GEYJ201V | S.M.CARB | 0.1W | 5% | 200 Ω |
| R610 | ERJ6GEYJ242V | S.M.CARB | 0.1W | 5% | 2K4 Ω |
| R611 | ERJ6GEYJ104V | S.M.CARB | 0.1W | 5% | 100K Ω |
| R612 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R620 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R622 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R647 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R648 | ERJ6GEYJ332V | S.M.CARB | 0.1W | 5% | 3K3 Ω |
| R650 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R701 | ERQ12AJ330P | METAL | 0.5W | 5% | 330 Ω |
| R702 | ERX2SJS2R7H | FUSIBLE | 2W | 5% | 2R7 Ω |
| R703 | ERG2FJ821H | METAL | 2W | 5% | 820 Ω |
| R704 | ERJ6GEYJ563V | S.M.CARB | 0.1W | 5% | 56K Ω |
| R705 | ERJ6GEYJ473V | S.M.CARB | 0.1W | 5% | 47K Ω |
| R706 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R707 | ERJ6GEYJ391V | S.M.CARB | 0.1W | 5% | 390 Ω |
| R708 | ERJ6GEYJ393V | S.M.CARB | 0.1W | 5% | 39K Ω |

| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| R709 | ERJ6GEYJ393V | S.M.CARB | 0.1W | 5% | 39K Ω |
| R710 | ERJ6GEYJ273V | S.M.CARB | 0.1W | 5% | 27K Ω |
| R711 | ERG1SJ101E | METAL | 1W | 5% | 100 Ω |
| R712 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R714 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R715 | ERDS2TJ272T | CARBON | 0.25W | 5% | 2K7 Ω |
| R716 | ERQ12AJ680P | METAL | 0.5W | 5% | 68 Ω |
| R718 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R719 | ERJ6GEYJ224V | S.M.CARB | 0.1W | 5% | 220K Ω |
| R720 | ERJ6GEYJ105V | S.M.CARB | 0.1W | 5% | 1M Ω |
| R721 | ERJ6GEYJ563V | S.M.CARB | 0.1W | 5% | 56K Ω |
| R805 | ERD25TJ473T | CARBON | 0.25W | 5% | 47K Ω |
| R806 | ERD25TJ100T | CARBON | 0.25W | 5% | 10 Ω |
| R807 | ERD25TJ332T | CARBON | 0.25W | 5% | 3K3 Ω |
| R809 | ERD25TJ681T | CARBON | 0.25W | 5% | 680 Ω |
| R810 | ERW2PKR22P | WOUND | 2W | 10% | R22 Ω |
| R811 | ERW2PKR22P | WOUND | 2W | 10% | R22 Ω |
| R812 | ERD75TAJ825 | CARBON | 0.75W | 5% | 8M2 Ω ⚠ |
| R813 | ERF7ZK2R7 | WOUND | 7W | 20% | 2R7 Ω |
| R814 | ERD25TJ473T | CARBON | 0.25W | 5% | 47K Ω |
| R815 | ERD25TJ222T | CARBON | 0.25W | 5% | 2K2 Ω |
| R817 | ERDS2TJ104T | CARBON | 2W | 5% | 100K Ω |
| R850 | ERD25TJ122T | CARBON | 0.25W | 5% | 1K2 Ω |
| R852 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R853 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R854 | ERG2FJ223H | METAL | 2W | 5% | 22K Ω |
| R855 | ERJ6GEYJ752V | S.M.CARB | 0.1W | 5% | 7K5 Ω |
| R856 | ERJ6GEYJ752V | S.M.CARB | 0.1W | 5% | 7K5 Ω |
| R857 | ERJ6GEYJ752V | S.M.CARB | 0.1W | 5% | 7K5 Ω |
| R858 | ERJ6GEYJ752V | S.M.CARB | 0.1W | 5% | 7K5 Ω |
| R859 | ERJ6GEYJ753V | S.M.CARB | 0.1W | 5% | 75K Ω |
| R861 | ERDS2TJ221T | CARBON | 0.5W | 5% | 220 Ω |
| R862 | ERDS2TJ272T | CARBON | 0.25W | 5% | 2K7 Ω |
| R863 | ERDS1TJ560T | CARBON | 0.5W | 5% | 56 Ω |
| R864 | ERDS1TJ151T | CARBON | 0.5W | 5% | 150 Ω |
| R865 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R867 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R868 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R869 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R870 | ERJ6GEYJ272V | S.M.CARB | 0.1W | 5% | 2K7 Ω |
| R871 | ERJ6GEYJ153V | S.M.CARB | 0.1W | 5% | 15K Ω |
| R872 | ERG1SJ183P | METAL | 1W | 5% | 18K Ω |
| R873 | ERG1SJ223P | METAL | 1W | 5% | 22K Ω |
| R874 | ERDS2TJ104T | CARBON | 2W | 5% | 100K Ω |
| R876 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R877 | ERW2PKR47P | WOUND | 2W | 10% | R47 Ω |
| R878 | ERJ6GEYJ473V | S.M.CARB | 0.1W | 5% | 47K Ω |
| R879 | ERG3FJ680H | METAL | 3W | 5% | 68 Ω |
| R880 | ERG5FJ120H | METAL | 5W | 5% | 12 Ω |
| R882 | ERG2FJ120H | METAL | 2W | 5% | 12 Ω |
| R890 | ERX1FJ3R9P | FUSIBLE | 1W | 5% | 3R9 Ω |
| R913 | ERJ6GEYJ183V | S.M.CARB | 0.1W | 5% | 18K Ω |
| R914 | ERJ6GEYJ332V | S.M.CARB | 0.1W | 5% | 3K3 Ω |
| R915 | ERJ6GEYJ821V | S.M.CARB | 0.1W | 5% | 820 Ω |
| R916 | ERJ6GEYJ221V | S.M.CARB | 0.1W | 5% | 220 Ω |
| R917 | ERJ6GEYJ121V | S.M.CARB | 0.1W | 5% | 120 Ω |
| R918 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R919 | ERQ14AJW390E | FUSIBLE | 0.25W | 5% | 39 Ω |
| R920 | ERQ14AJW390E | FUSIBLE | 0.25W | 5% | 39 Ω |
| R922 | ERDS2TJ683T | CARBON | 2W | 5% | 68K Ω |
| R923 | ERDS2TJ683T | CARBON | 2W | 5% | 68K Ω |
| R924 | ERDS1FYJ390T | CARBON | 0.5W | 5% | 39 Ω |
| R925 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R926 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R927 | ERDS2TJ122T | CARBON | 0.25W | 5% | 1K2 Ω |
| R928 | ERDS2TJ5R6T | CARBON | 0.25W | 5% | 5R6 Ω |

| Cct Ref | Parts Number | Description |
|---|---|---|
| D376 | 1SS133T-77 | DIODE |
| D377 | 1SS133T-77 | DIODE |
| D378 | 1SS133T-77 | DIODE |
| D387 | MA2160LFS | DIODE |
| D453 | 1SS133T-77 | DIODE |
| D454 | EU02V0 | DIODE |
| D456 | MTZJT-777.5B | DIODE |
| D457 | 1SS133T-77 | DIODE |
| D458 | T3A206022 | DIODE |
| D501 | 1SS133T-77 | DIODE |
| D502 | 1SR124-4AT82 | DIODE |
| D511 | MA4047MTA | DIODE |
| D553 | 1SR124-4AT82 | DIODE |
| D554 | 1SR124-4AT82 | DIODE |
| D556 | 1SS133T-77 | DIODE |
| D557 | TVSRU2AMLFA1 | DIODE |
| D558 | EU02V0 | DIODE |
| D560 | RH3GLF102 | DIODE |
| D561 | UDZSTE-1722B | DIODE |
| D562 | 1SS355TE-17 | DIODE |
| D580 | FMV-3GULF730 | DIODE |
| D601 | 1SS133T-77 | DIODE |
| D602 | 1SS133T-77 | DIODE |
| D603 | 1SS133T-77 | DIODE |
| D604 | 1SS133T-77 | DIODE |
| D609 | 1SR124-4AT82 | DIODE |
| D617 | MA3068MTX | DIODE |
| D620 | 1SS133T-77 | DIODE |
| D701 | 1SS133T-77 | DIODE |
| D702 | MTZJT-775.6B | DIODE |
| D704 | MA29T-BTA | DIODE |
| D705 | MTZJT-776.2B | DIODE |
| D706 | MA165TA5VT | DIODE |
| D707 | AU02V0 | DIODE |
| D708 | 1SS133T-77 | DIODE |
| D709 | MTZJT-7736A | DIODE |
| D710 | MTZJT-7716C | DIODE |
| D801 | RBV-608LF-B | DIODE |
| D803 | 1SR124-4AT82 | DIODE |
| D804 | 1SR124-4AT82 | DIODE |
| D805 | SFH617A-20P6 | PHOTO COUPLER ⚠ |
| D806 | 1SR124-4AT82 | DIODE |
| D850 | RU4BLF-L1 | DIODE |
| D851 | MTZJT-776.2B | DIODE |
| D852 | 1SS133T-77 | DIODE |
| D853 | TYMD0002 | DIODE |
| D854 | S3L20U04P15 | DIODE |
| D855 | D10SC6MRL | DIODE |
| D856 | RU4AMLF-M1 | DIODE |
| D857 | MTZJT-775.1A | DIODE |
| D858 | 1SS133T-77 | DIODE |
| D859 | 1SS133T-77 | DIODE |
| D860 | 1SS133T-77 | DIODE |
| D861 | 1SS133T-77 | DIODE |
| D862 | MTZJT-7736A | DIODE |
| D863 | 1SS133T-77 | DIODE |
| D864 | 1SS133T-77 | DIODE |
| D865 | 1SS133T-77 | DIODE |
| D866 | 1SS133T-77 | DIODE |
| D867 | EK06-V0 | DIODE |
| D868 | 1N4150T-77 | DIODE |
| D869 | 1N4150T-77 | DIODE |
| D870 | 1SS133T-77 | DIODE |
| D871 | 1N4150T-77 | DIODE |
| D873 | MTZJT-775.6C | DIODE |
| D874 | 1SR124-4AT82 | DIODE |

| Cct Ref | Parts Number | Description |
|---|---|---|
| D875 | BZX79A75A26A | DIODE |
| D890 | 1SS133T-77 | DIODE |
| D891 | 1SS133T-77 | DIODE |
| D901 | 1SS133T-77 | DIODE |
| D902 | 1SS133T-77 | DIODE |
| D903 | 1SS133T-77 | DIODE |
| D907 | 1SS133T-77 | DIODE |
| D910 | R2KNLFA1 | DIODE |
| D1055 | MTZJT-775.1C | DIODE |
| D1061 | SLR-56VR3F | LED |
| D1101 | 1SS133T-77 | DIODE |
| D1104 | 1SS133T-77 | DIODE |
| D1105 | 1SS133T-77 | DIODE |
| D1131 | MTZJT-775.6C | DIODE |
| D2101 | MA723TA5 | DIODE |
| D2102 | MA723TA5 | DIODE |
| D2103 | MA723TA5 | DIODE |
| D2104 | MA723TA5 | DIODE |
| D2105 | MTZJT-778.2C | DIODE |
| D2303 | MA723TA5 | DIODE |
| D2304 | MA723TA5 | DIODE |
| D3201 | MTZJT-778.2C | DIODE |
| D3202 | MTZJT-778.2C | DIODE |
| D3351 | 1SS133T-77 | DIODE |
| D3352 | 1SS133T-77 | DIODE |
| D3353 | 1SS133T-77 | DIODE |
| D3354 | 1SS133T-77 | DIODE |
| R842 | 232266296706 | THERMISTOR |
| R843 | 232266296706 | THERMISTOR |
| **TRANSISTORS** | | |
| Q101 | BC847B | TRANSISTOR |
| Q102 | BC847B | TRANSISTOR |
| Q103 | BC847B | TRANSISTOR |
| Q104 | BC847B | TRANSISTOR |
| Q105 | BC847B | TRANSISTOR |
| Q251 | 2SD1328STX | TRANSISTOR |
| Q252 | 2SD1328STX | TRANSISTOR |
| Q253 | BC847B | TRANSISTOR |
| Q254 | BC847B | TRANSISTOR |
| Q351 | TYMQ0002 | TRANSISTOR |
| Q361 | TYMQ0002 | TRANSISTOR |
| Q371 | TYMQ0002 | TRANSISTOR |
| Q451 | BC857B | TRANSISTOR |
| Q503 | 2SK2962TPE6 | TRANSISTOR |
| Q551 | 2SC5144LB228 | TRANSISTOR |
| Q552 | 2SC1473ATA | TRANSISTOR |
| Q553 | BC847B | TRANSISTOR |
| Q601 | BC847B | TRANSISTOR |
| Q701 | BC857B | TRANSISTOR |
| Q702 | BC847B | TRANSISTOR |
| Q703 | IRF644R | TRANSISTOR |
| Q850 | 2SD2396/K | TRANSISTOR |
| Q851 | BC857B | TRANSISTOR |
| Q852 | 2SD1858TV2 | TRANSISTOR |
| Q853 | BC847B | TRANSISTOR |
| Q854 | BC847B | TRANSISTOR |
| Q855 | BC847B | TRANSISTOR |
| Q856 | BC847B | TRANSISTOR |
| Q857 | 2SA1018QTA | TRANSISTOR |
| Q905 | BC847B | TRANSISTOR |
| Q906 | BC847B | TRANSISTOR |
| Q907 | BC857B | TRANSISTOR |
| Q908 | 2SA1536ARLB | TRANSISTOR |
| Q909 | 2SC3944ARLB | TRANSISTOR |
| Q1051 | BC847B | TRANSISTOR |
| Q1062 | BC847B | TRANSISTOR |



| Cct Ref | Parts Number | Description |
|---|---|---|
| Q1104 | BC847B | TRANSISTOR |
| Q1105 | BC847B | TRANSISTOR |
| Q1106 | BC847B | TRANSISTOR |
| Q1107 | BC847B | TRANSISTOR |
| Q1108 | BC847B | TRANSISTOR |
| Q1501 | BC847B | TRANSISTOR |
| Q1502 | BC857B | TRANSISTOR |
| Q1503 | BC847B | TRANSISTOR |
| Q1504 | BC847B | TRANSISTOR |
| Q1505 | BC857B | TRANSISTOR |
| Q1506 | BC847B | TRANSISTOR |
| Q1507 | BC847B | TRANSISTOR |
| Q1508 | BC857B | TRANSISTOR |
| Q1509 | BC847B | TRANSISTOR |
| Q1510 | BC847B | TRANSISTOR |
| Q1511 | BC857B | TRANSISTOR |
| Q1512 | BC847B | TRANSISTOR |
| Q1513 | BC847B | TRANSISTOR |
| Q1514 | BC847B | TRANSISTOR |
| Q1515 | BC847B | TRANSISTOR |
| Q1900 | BC847B | TRANSISTOR |
| Q2101 | BC857B | TRANSISTOR |
| Q2102 | BC857B | TRANSISTOR |
| Q2103 | BC857B | TRANSISTOR |
| Q2201 | BC847B | TRANSISTOR |
| Q2202 | BC847B | TRANSISTOR |
| Q2301 | BC847B | TRANSISTOR |
| Q2302 | BC857B | TRANSISTOR |
| Q2303 | BC847B | TRANSISTOR |
| Q2304 | BC857B | TRANSISTOR |
| Q3006 | BC847B | TRANSISTOR |
| Q3007 | BC847B | TRANSISTOR |
| Q3201 | BC847B | TRANSISTOR |
| Q3202 | BC847B | TRANSISTOR |
| Q3203 | BC857B | TRANSISTOR |
| Q3204 | BC857B | TRANSISTOR |
| Q3205 | BC847B | TRANSISTOR |
| Q3206 | BC847B | TRANSISTOR |
| Q3207 | BC847B | TRANSISTOR |
| Q3208 | BC847B | TRANSISTOR |
| Q3209 | BC847B | TRANSISTOR |
| Q3352 | BC857B | TRANSISTOR |
| **TRANSFORMERS** | | |
| T501 | ETH19Y193AY | TRANSFORMER |
| T801 | 10724870 | TRANSFORMER ⚠ |
| T802 | ETP35KAN619U | TRANSFORMER ⚠ |
| **COILS** | | |
| J26 | EXCELDR35V | COIL |
| JA11 | ELJFC2R2KF | COIL |
| L101 | TLT100K991R | COIL |
| L102 | TLT068K991R | COIL |
| L103 | EXCELSA35B | COIL |
| L104 | TLTACT4R7K | COIL |
| L105 | TLTACTR47K | COIL |
| L106 | TLTACT100K | COIL |
| L107 | TLTACT6R8K | COIL |
| L114 | ELJFC2R2KF | COIL |
| L115 | ELJFC2R2KF | COIL |
| L301 | TLTACT4R7K | COIL |
| L353 | TLT150K991R | COIL |
| L363 | TLT100K991R | COIL |
| L373 | TLT150K991R | COIL |
| L381 | TLT220K991R | COIL |
| L382 | ELESN6R8KA | COIL |
| L451 | EXCELSA35T | COIL |
| L501 | EXCELSA35T | COIL |

| Cct Ref | Parts Number | Description |
|---|---|---|
| L581 | ELHKLB026B | COIL |
| L582 | ELC18B221E | COIL |
| L583 | ELC18B150L | COIL |
| L584 | ELHKLB025B | COIL |
| L586 | EXCELDR35C | COIL |
| L606 | ELESN100KA | COIL |
| L701 | ELC18B271E | COIL |
| L704 | ELC10D332E | COIL |
| L705 | EXCELDR35V | COIL |
| L806 | ETQR42T005A | COIL |
| L850 | EXCELSA35T | COIL |
| L851 | EXCELSA35T | COIL |
| L852 | ELEIE470KA | COIL |
| L855 | EXCELSA35T | COIL |
| L856 | EXCELSA39E | COIL |
| L910 | EXCELSA35T | COIL |
| L911 | EXCELSA35T | COIL |
| L912 | EXCELSA35T | COIL |
| L1061 | TLT331K991R | COIL |
| L1103 | TLTACT100K | COIL |
| L1104 | EXCELSA35T | COIL |
| L1105 | ELJFC2R2KF | COIL |
| L1501 | ELESN2R2KA | COIL |
| L1502 | ELESN2R2KA | COIL |
| L1503 | ELESN2R2KA | COIL |
| L1504 | ELESN2R2KA | COIL |
| L1505 | ELESN100KA | COIL |
| L1506 | ELESN100KA | COIL |
| L1507 | ELESNR22KA | COIL |
| L1508 | ELESNR22KA | COIL |
| L1509 | ELESN100KA | COIL |
| L1510 | ELESN100KA | COIL |
| L1514 | ELESN100KA | COIL |
| L1515 | ELESNR39KA | COIL |
| L1516 | ELESN4R7KA | COIL |
| L1517 | ELESN4R7KA | COIL |
| L1518 | ELESN4R7KA | COIL |
| L1519 | ELESNR39KA | COIL |
| L1520 | ELESN2R2KA | COIL |
| L1521 | ELESN1R0KA | COIL |
| L1522 | ELESN2R2KA | COIL |
| L1523 | ELESN2R2KA | COIL |
| L1524 | ELESN2R2KA | COIL |
| L1525 | ELESN100KA | COIL |
| L1526 | ELESN100KA | COIL |
| L1527 | ELESN100KA | COIL |
| L1528 | ELESN100KA | COIL |
| L1529 | ELESN100KA | COIL |
| L1900 | EXCELDR25V | COIL |
| L2101 | TLTACT100K | COIL |
| L2103 | EXCELSA35T | COIL |
| L2104 | TLTACT4R7K | COIL |
| L2202 | ELESN2R2KA | COIL |
| L2222 | ELESN2R2KA | COIL |
| L3001 | ELEMV1R5MA | COIL |
| L3002 | ELEMV1R5MA | COIL |
| L3003 | ELEMV1R5MA | COIL |
| L3004 | ELEMV1R5MA | COIL |
| L3201 | ELEBR6R8KA | COIL |
| L3202 | ELEBR6R8KA | COIL |
| L3204 | TLT331K991R | COIL |
| **FILTERS** | | |
| L1901 | ELF18N012A | LINE FILTER |
| L1902 | ELF18N012A | LINE FILTER |
| X101 | EFCT6504BN | FILTER |
| X102 | EFCT7004BN | CERAMIC FILTER |

| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| R3049 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3050 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3057 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R3201 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R3202 | ERDS1TJ151T | CARBON | 0.5W | 5% | 150 Ω |
| R3203 | ERDS1TJ151T | CARBON | 0.5W | 5% | 150 Ω |
| R3204 | ERG2FJ221H | METAL | 2W | 5% | 220 Ω |
| R3205 | ERG2FJ221H | METAL | 2W | 5% | 220 Ω |
| R3207 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3208 | ERJ6GEYJ153V | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3209 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3210 | ERJ6GEYJ153V | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3211 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3212 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3213 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3214 | ERJ6GEYJ683V | S.M.CARB | 0.1W | 5% | 68K Ω |
| R3215 | ERJ6GEYJ302V | S.M.CARB | 0.1W | 5% | 3K Ω |
| R3216 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R3217 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3218 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3219 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3220 | ERJ6GEYJ683V | S.M.CARB | 0.1W | 5% | 68K Ω |
| R3221 | ERJ6GEYJ302V | S.M.CARB | 0.1W | 5% | 3K Ω |
| R3222 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3223 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3224 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3225 | ERJ6GEYJ683V | S.M.CARB | 0.1W | 5% | 68K Ω |
| R3226 | ERJ6GEYJ302V | S.M.CARB | 0.1W | 5% | 3K Ω |
| R3227 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3228 | ERJ6GEYJ273V | S.M.CARB | 0.1W | 5% | 27K Ω |
| R3229 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3230 | ERJ6GEYJ302V | S.M.CARB | 0.1W | 5% | 3K Ω |
| R3231 | ERJ6GEYJ122V | S.M.CARB | 0.1W | 5% | 1K2 Ω |
| R3232 | ERJ6GEYJ242V | S.M.CARB | 0.1W | 5% | 2K4 Ω |
| R3233 | ERJ6GEYJ391V | S.M.CARB | 0.1W | 5% | 390 Ω |
| R3234 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3354 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3355 | ERJ6GEYJ391V | S.M.CARB | 0.1W | 5% | 390 Ω |
| R3356 | ERJ6GEYJ681V | S.M.CARB | 0.1W | 5% | 680 Ω |
| R3357 | ERJ6GEYJ681V | S.M.CARB | 0.1W | 5% | 680 Ω |
| R3358 | ERJ6GEYJ681V | S.M.CARB | 0.1W | 5% | 680 Ω |
| R3360 | ERDS1TJ471T | CARBON | 0.5W | 5% | 470 Ω |
| R3361 | ERO50PKF1133 | METAL | 0.5W | 5% | 110K Ω |
| R3362 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3363 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3364 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3601 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3602 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3603 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3614 | ERJ6GEYJ391V | S.M.CARB | 0.1W | 5% | 390 Ω |

CAPACITORS

| | | | | | |
|---|---|---|---|---|---|
| C101 | ECJ2VB1C104K | ELECT | 350V | | 100nF |
| C102 | ECJ2VB1C104K | ELECT | 350V | | 100nF |
| C103 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C105 | ECUV1H560JCX | S.M. CAP | 50V | | 56pF |
| C106 | ECUV1H560JCX | S.M. CAP | 50V | | 56pF |
| C107 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C108 | ECA1CM470B | ELECT | 16V | | 47µF |
| C109 | ECUV1H102JCX | S.M. CAP | 50V | | 1nF |
| C110 | ECJ2VF1H103Z | ELECT | 350V | | 10nF |
| C111 | ECA1HMR33B | ELECT | 50V | | 330nF |
| C114 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C115 | ECJ2VF1H103Z | ELECT | 350V | | 10nF |
| C116 | ECA1CM221B | ELECT | 16V | | 220µF |
| C117 | ECJ2VF1H103Z | ELECT | 350V | | 10nF |
| C118 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |

| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| C119 | ECA1CM221B | ELECT | 16V | | 220µF |
| C120 | ECA1CM221B | ELECT | 16V | | 220µF |
| C121 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C124 | ECUV1H220JCX | S.M. CAP | 50V | | 22pF |
| C125 | ECUV1H100DCX | S.M. CAP | 50V | | 10pF |
| C133 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C134 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C135 | ECUV1H104KBW | S.M. CAP | 50V | | 100nF |
| C136 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C138 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C251 | ECA1EM100B | ELECT | 25V | | 10µF |
| C252 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C253 | ECA1HM4R7B | ELECT | 50V | | 4.7µF |
| C254 | ECQV1H274JL3 | FILM | 50V | | 270nF |
| C255 | ECA1EM101B | ELECT | 25V | | 100µF |
| C256 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C257 | ECA1HM4R7B | ELECT | 50V | | 4.7µF |
| C258 | ECA1EM100B | ELECT | 25V | | 10µF |
| C259 | ECQV1H274JL3 | FILM | 50V | | 270nF |
| C260 | ECA1VM102B | ELECT | 35V | | 1000µF |
| C261 | ECA1VM102B | ELECT | 35V | | 1000µF |
| C262 | ECA1HM4R7B | ELECT | 50V | | 4.7µF |
| C263 | ECA1HM010B | ELECT | 50V | | 1µF |
| C264 | ECA1HHG222E | ELECT | 50V | | 2200µF |
| C265 | ECA1HM4R7B | ELECT | 50V | | 4.7µF |
| C266 | ECA1HM010B | ELECT | 50V | | 1µF |
| C267 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C268 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C270 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C350 | ECUV1H102JCX | S.M. CAP | 50V | | 1nF |
| C352 | ECJ2VF1H224Z | ELECT | 350V | | 220nF |
| C353 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C354 | ECQE2104KF3 | FILM | 250V | | 100nF |
| C355 | ECKR2H102KB5 | CERAMIC | 500V | | 1nF |
| C358 | ECUV1H222JCX | S.M. CAP | 50V | | 2.2nF |
| C360 | ECUV1H102JCX | S.M. CAP | 50V | | 1nF |
| C362 | ECJ2VF1H224Z | ELECT | 350V | | 220nF |
| C363 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C364 | ECQE2104KF3 | FILM | 250V | | 100nF |
| C365 | ECKR2H102KB5 | CERAMIC | 500V | | 1nF |
| C368 | ECUV1H222JCX | S.M. CAP | 50V | | 2.2nF |
| C369 | ECUV1H220JCX | S.M. CAP | 50V | | 22pF |
| C370 | ECUV1H102JCX | S.M. CAP | 50V | | 1nF |
| C372 | ECJ2VF1H224Z | ELECT | 350V | | 220nF |
| C373 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C374 | ECQE2104KF3 | FILM | 250V | | 100nF |
| C375 | ECKR2H102KB5 | CERAMIC | 500V | | 1nF |
| C378 | ECUV1H222JCX | S.M. CAP | 50V | | 2.2nF |
| C381 | SMG1CV101MT5 | ELECT | 16V | | 100µF |
| C382 | ECA1CM471B | ELECT | 16V | | 470µF |
| C383 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C384 | ECQE2104KFW | FILM | 250V | | 100nF |
| C385 | ECA2EM220B | ELECT | 250V | | 22µF |
| C386 | ECKW3D152JBR | CERAMIC | 2KV | PAC | 1.5nF |
| C395 | ECQV1H104JL3 | FILM | 50V | | 0.1µF |
| C451 | ECUV1H102JCX | S.M. CAP | 50V | | 1nF |
| C453 | ECUV1H152KBX | S.M. CAP | 50V | | 1.5pF |
| C454 | ECQV1H105JL3 | FILM | 50V | | 1µF |
| C455 | ECA1HM100B | ELECT | 50V | | 10µF |
| C456 | ECA1HHG221B | ELECT | 50V | | 220µF |
| C459 | ECQB1224KFW | FILM | 100V | | 220nF |
| C508 | ECQB1H103KF3 | FILM | 50V | | 10nF |
| C509 | SMG1VV470MT5 | ELECT | 35V | | 47µF |
| C511 | ECQE2683KFW | FILM | 100V | | 68nF |
| C551 | ECKW3D471JBN | CERAMIC | 2kV | | 470pF |
| C552 | ECWH20102JVY | FILM | 200V | | 1µF |



| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| C557 | ECKR2H471KB5 | CERAMIC | 500V | | 470pF |
| C558 | ECA1HHG471B | ELECT | 50V | | 470µF |
| C561 | ECA1EHG102B | ELECT | 25V | | 1000µF |
| C562 | ECKR2H101KB5 | CERAMIC | 500V | | 100pF |
| C563 | ECA2EHG220B | ELECT | 250V | | 20µF |
| C564 | ECEA2AU2R2B | ELECT | 100V | | 2.2µF |
| C565 | ECQP1H273JZW | FILM | 100V | | 27nF |
| C566 | ECKR2H471KB5 | CERAMIC | 500V | | 470pF |
| C567 | ECA1EHG102B | ELECT | 25V | | 1000µF |
| C568 | ECKR2H471KB5 | CERAMIC | 500V | | 470pF |
| C569 | ECKR2H102KB5 | CERAMIC | 500V | | 1nF |
| C572 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C581 | ECWF4564JBB | FILM | 400V | | 560nF |
| C582 | ECWF4474JBB | FILM | 400V | | 470nF |
| C583 | ECWH20562JVB | FILM | 200V | | 5.6nF |
| C584 | ECWH20562JVB | FILM | 200V | | 5.6nF |
| C586 | ECQF4153JZH | FILM | 400V | | 1.5nF |
| C587 | ECQF4223JZH | FILM | 400V | | 22nF |
| C608 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C609 | ECUV1H270JCX | S.M. CAP | 50V | | 27pF |
| C621 | ECUV1H271JCX | S.M. CAP | 50V | | 270pF |
| C622 | ECUV1H271JCX | S.M. CAP | 50V | | 270pF |
| C623 | ECUV1H121JCX | S.M. CAP | 50V | | 120pF |
| C624 | ECUV1H121JCX | S.M. CAP | 50V | | 120pF |
| C625 | ECQV1H224JL3 | FILM | 50V | | 220nF |
| C626 | ECA1CM100B | ELECT | 16V | | 10µF |
| C627 | ECJ2VB1C104K | ELECT | 350V | | 100nF |
| C628 | ECQV1H224JL3 | FILM | 50V | | 220nF |
| C629 | ECUV1H271JCX | S.M. CAP | 50V | | 270pF |
| C630 | ECUV1H271JCX | S.M. CAP | 50V | | 270pF |
| C631 | ECUV1H121JCX | S.M. CAP | 50V | | 120pF |
| C632 | ECUV1H121JCX | S.M. CAP | 50V | | 120pF |
| C701 | ECA1HHG101B | ELECT | 50V | | 100µF |
| C702 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C703 | ECA1HHG100E | ELECT | 50V | | 10µF |
| C704 | ECJ2VB1H223K | ELECT | 350V | | 22nF |
| C705 | ECQB1H102KF3 | ELECT | 50V | | 1nF |
| C709 | ECQV1H105JL3 | FILM | 50V | | 1µF |
| C806 | ECKWNA101MB | CERAMIC | 400V | | 100µF ⚠ |
| C807 | ECKW2H472PU7 | CERAMIC | 500V | | 4.7nF |
| C808 | ECKW2H472PU7 | CERAMIC | 500V | | 4.7nF |
| C809 | ECKW2H472PU7 | CERAMIC | 500V | | 4.7nF |
| C810 | ECKW2H472PU7 | CERAMIC | 500V | | 4.7nF |
| C811 | ECOS2GA221CB | ELECT | 400V | | 220µF |
| C814 | ECKW3D102KBP | CERAMIC | 2kV | | 1nF |
| C815 | ECKR1H471KB5 | CERAMIC | 50V | | 470pF |
| C816 | ECA1EM101B | ELECT | 25V | | 100µF |
| C818 | ECKCWS332MEB | CERAMIC | 1.2kV | | 3.3nF ⚠ |
| C819 | ECQB1H102KF3 | ELECT | 50V | | 1nF |
| C820 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C839 | ECA1CM100B | ELECT | 16V | | 10µF |
| C840 | ECJ2YB1H104K | ELECT | 350V | | 100nF |
| C841 | ECA1AM222B | ELECT | 10V | | 2200µF |
| C842 | ECA1CM100B | ELECT | 16V | | 10µF |
| C845 | ECQE6104KFW | FILM | 600V | | 100nF |
| C846 | 222233821154 | FILM | 250V | | 150nF ⚠ |
| C850 | ECKW3D471KBP | CERAMIC | 2KV | | 470pF |
| C851 | ECA2CHG221E | ELECT | 160V | | 220µF |
| C852 | EEUEB2D101E | ELECT | 200V | | 100µF |
| C853 | ECKR2H471KB5 | CERAMIC | 500V | | 470pF |
| C854 | ECA1EM102B | ELECT | 25V | | 1000µF |
| C855 | ECKR2H471KB5 | CERAMIC | 500V | | 470pF |
| C856 | ECA1AHG332B | ELECT | 10V | | 3.3nF |
| C857 | ECKR2H471KB5 | CERAMIC | 500V | | 470pF |
| C858 | ECEA1HGE102E | ELECT | 50V | | 1000µF |
| C859 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |

| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| C860 | SMG1CV101MT5 | ELECT | 16V | | 100µF |
| C862 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C863 | SMG1CV101MT5 | ELECT | 16V | | 100µF |
| C864 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C865 | ECA1CM100B | ELECT | 16V | | 10µF |
| C866 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C867 | ECA1CM100B | ELECT | 16V | | 10µF |
| C868 | ECA1CM100B | ELECT | 16V | | 10µF |
| C869 | ECA1EM101B | ELECT | 25V | | 100µF |
| C870 | ECA1EM471B | ELECT | 25V | | 470µF |
| C871 | ECA1CM332E | ELECT | 16V | | 3300µF |
| C872 | ECA1CM471B | ELECT | 16V | | 470µF |
| C873 | ECA1CM100B | ELECT | 16V | | 10µF |
| C875 | ECA2CM4R7B | ELECT | 160V | | 10µF |
| C876 | ECA1HHG101B | ELECT | 50V | | 100µF |
| C902 | ECA1VM101B | ELECT | 35V | | 100µF |
| C904 | ECJ2VF1H103Z | ELECT | 350V | | 10nF |
| C906 | ECUV1H563KBX | S.M. CAP | 50V | | 56nF |
| C907 | ECUV1H331JCX | S.M. CAP | 50V | | 330pF |
| C909 | ECKR2H472MD5 | CERAMIC | 500V | | 4.7nF |
| C910 | ECKR2H472MD5 | CERAMIC | 500V | | 4.7nF |
| C912 | ECA2EM220B | ELECT | 250V | | 22µF |
| C913 | SMG1CV101MT5 | ELECT | 16V | | 100µF |
| C914 | SMG1CV101MT5 | ELECT | 16V | | 100µF |
| C916 | ECA2EM220B | ELECT | 250V | | 22µF |
| C917 | ECA1HM100B | ELECT | 50V | | 10µF |
| C918 | ECJ2VF1H103Z | ELECT | 350V | | 10nF |
| C919 | ECCR2H270JC5 | CERAMIC | 500V | | 27pF |
| C1061 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C1062 | SMG1CV101MT5 | ELECT | 16V | | 100µF |
| C1063 | ECUV1H331JCX | S.M. CAP | 50V | | 330pF |
| C1101 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C1102 | ECA0JM101B | ELECT | 400V | | 100µF |
| C1103 | ECUV1H220JCX | S.M. CAP | 50V | | 22pF |
| C1104 | ECUV1H220JCX | S.M. CAP | 50V | | 22pF |
| C1105 | ECUV1H101JCX | S.M. CAP | 50V | | 100pF |
| C1106 | ECKR2H681KB5 | CERAMIC | 500V | | 680pF |
| C1108 | ECJ2VB1H333K | ELECT | 350V | | 33nF |
| C1111 | ECA1CM100B | ELECT | 16V | | 10µF |
| C1112 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C1115 | ECJ3VB1C474K | ELECT | 3.5KV | | 470nF |
| C1116 | ECJ2VB1H472K | ELECT | 350V | | 4.7nF |
| C1117 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C1118 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C1119 | ECUV1H221JCX | S.M. CAP | 50V | | 220pF |
| C1120 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C1121 | ECUV1H221JCX | S.M. CAP | 50V | | 220pF |
| C1123 | ECUV1H471JCX | S.M. CAP | 50V | | 470pF |
| C1124 | ECUV1H221JCX | S.M. CAP | 50V | | 220pF |
| C1125 | ECUV1H221JCX | S.M. CAP | 50V | | 220pF |
| C1126 | ECUV1H221JCX | S.M. CAP | 50V | | 220pF |
| C1127 | ECUV1H561JCX | S.M. CAP | 50V | | 560pF |
| C1129 | ECUV1H270JCX | S.M. CAP | 50V | | 27pF |
| C1130 | ECA1CM221B | ELECT | 16V | | 220µF |
| C1502 | ECUV1H271JCX | S.M. CAP | 50V | | 270pF |
| C1504 | ECUV1H271JCX | S.M. CAP | 50V | | 270pF |
| C1506 | ECUV1H271JCX | S.M. CAP | 50V | | 270pF |
| C1508 | ECUV1H271JCX | S.M. CAP | 50V | | 270pF |
| C1509 | ECQV1H684JL3 | FILM | 50V | | 680nF |
| C1510 | ECQV1H684JL3 | FILM | 50V | | 680nF |
| C1511 | ECQV1H684JL3 | FILM | 50V | | 680nF |
| C1512 | ECQV1H684JL3 | FILM | 50V | | 680nF |
| C1513 | ECUV1H102JCX | S.M. CAP | 50V | | 1nF |
| C1514 | ECEA1CKA100B | ELECT | 16V | | 10µF |
| C1515 | ECJ2VB1H103K | ELECT | 350V | | 10nF |
| C1516 | ECEA1CN101UB | ECLECT | 16V | | 100µF |

| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| R929 | ERDS1FVJ471T | CARBON | 0.5W | 5% | 470 Ω |
| R931 | ERDS1FYJ390T | CARBON | 0.5W | 5% | 39 Ω |
| R935 | ERQ14AJW3R9E | FUSIBLE | 0.25W | 5% | 3R9 Ω |
| R936 | ERQ1CJP102S | FUSIBLE | 1W | 5% | 1K Ω |
| R937 | ERQ14AJW100E | FUSIBLE | 0.25W | 5% | 10 Ω |
| R938 | ERDS2TJ122T | CARBON | 0.25W | 5% | 1K2 Ω |
| R941 | ERDS2TJ5R6T | CARBON | 0.25W | 5% | 5R6 Ω |
| R1051 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1062 | ERJ6GEYJ271V | S.M.CARB | 0.1W | 5% | 270 Ω |
| R1063 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1101 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1102 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1103 | ERJ6GEYJ331V | S.M.CARB | 0.1W | 5% | 330 Ω |
| R1104 | ERJ6GEYJ331V | S.M.CARB | 0.1W | 5% | 330 Ω |
| R1105 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1106 | ERJ6GEYJ104V | S.M.CARB | 0.1W | 5% | 100K Ω |
| R1107 | ERJ6GEYJ104V | S.M.CARB | 0.1W | 5% | 100K Ω |
| R1108 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1109 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1110 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1111 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1112 | ERJ6GEYJ473V | S.M.CARB | 0.1W | 5% | 47K Ω |
| R1113 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1114 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1115 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1116 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1117 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1118 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1119 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1120 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1121 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1123 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1124 | ERJ6GEYJ1R0V | S.M.CARB | 0.1W | 5% | 1 Ω |
| R1125 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1126 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1127 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1128 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R1129 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R1130 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1131 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1132 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1133 | ERJ6GEYJ272V | S.M.CARB | 0.1W | 5% | 2K7 Ω |
| R1136 | ERJ6GEYJ273V | S.M.CARB | 0.1W | 5% | 27K Ω |
| R1137 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1138 | ERJ6GEYJ105V | S.M.CARB | 0.1W | 5% | 1M Ω |
| R1139 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1140 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1141 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1142 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1145 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1146 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1147 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1148 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1149 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R1151 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1152 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1154 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1155 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1156 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1157 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1158 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1159 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1160 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R1161 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1163 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1164 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |

| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| R1165 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1166 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1167 | ERJ6GEYJ100V | S.M.CARB | 0.1W | 5% | 10 Ω |
| R1168 | ERJ6GEYJ473V | S.M.CARB | 0.1W | 5% | 47K Ω |
| R1169 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1170 | ERJ6GEYJ273V | S.M.CARB | 0.1W | 5% | 27K Ω |
| R1171 | ERJ6GEYJ224V | S.M.CARB | 0.1W | 5% | 220K Ω |
| R1172 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R1173 | ERJ6GEYJ104V | S.M.CARB | 0.1W | 5% | 100K Ω |
| R1174 | ERJ6GEYJ221V | S.M.CARB | 0.1W | 5% | 220 Ω |
| R1175 | ERJ6GEYJ225V | S.M.CARB | 0.1W | 5% | 2M2 Ω |
| R1178 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1251 | ERJ6GEYJ222V | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R1252 | ERJ6GEYJ222V | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R1253 | ERJ6GEYJ332V | S.M.CARB | 0.1W | 5% | 3K3 Ω |
| R1254 | ERJ6GEYJ512V | S.M.CARB | 0.1W | 5% | 5K1 Ω |
| R1255 | ERJ6GEYJ912V | S.M.CARB | 0.1W | 5% | 9K1 Ω |
| R1501 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1502 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1504 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1505 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1506 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1507 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1508 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1509 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1510 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1511 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1512 | ERJ6GEYJ391V | S.M.CARB | 0.1W | 5% | 390 Ω |
| R1513 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1514 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1515 | ERJ6GEYJ752V | S.M.CARB | 0.1W | 5% | 7K5 Ω |
| R1517 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1521 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1522 | ERJ6GEYJ391V | S.M.CARB | 0.1W | 5% | 390 Ω |
| R1523 | ERJ6GEYJ331V | S.M.CARB | 0.1W | 5% | 330 Ω |
| R1524 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1525 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1526 | ERJ6GEYJ391V | S.M.CARB | 0.1W | 5% | 390 Ω |
| R1527 | ERJ6GEYJ122V | S.M.CARB | 0.1W | 5% | 1K2 Ω |
| R1528 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1529 | ERJ6GEYJ122V | S.M.CARB | 0.1W | 5% | 1K2 Ω |
| R1530 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1531 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1532 | ERJ6GEYJ391V | S.M.CARB | 0.1W | 5% | 390 Ω |
| R1533 | ERJ6GEYJ122V | S.M.CARB | 0.1W | 5% | 1K2 Ω |
| R1534 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1535 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1536 | ERJ6GEYJ391V | S.M.CARB | 0.1W | 5% | 390 Ω |
| R1537 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R1538 | ERJ6GEYJ331V | S.M.CARB | 0.1W | 5% | 330 Ω |
| R1539 | ERJ6GEYJ271V | S.M.CARB | 0.1W | 5% | 270 Ω |
| R1540 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R1541 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1542 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1543 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1544 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1545 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1546 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1547 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1548 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1549 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1550 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1551 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1552 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1553 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1554 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |



| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| R1555 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1556 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1557 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1558 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1559 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1560 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1561 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1562 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1563 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1564 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1565 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1566 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1567 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1568 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1569 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1570 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1571 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1572 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1573 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1574 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R1575 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1577 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1578 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1579 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1580 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1584 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1585 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1586 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1587 | ERJ6GEYJ152V | S.M.CARB | 0.1W | 5% | 1K5 Ω |
| R1588 | ERJ6GEYJ511V | S.M.CARB | 0.1W | 5% | 510 Ω |
| R1589 | ERJ6GEYJ152V | S.M.CARB | 0.1W | 5% | 1K5 Ω |
| R1900 | ERQ12HJ150P | FUSIBLE | 0.5W | 5% | 15 Ω |
| R1901 | ERJ6GEYJ273V | S.M.CARB | 0.1W | 5% | 27K Ω |
| R1902 | ERJ6GEYJ183V | S.M.CARB | 0.1W | 5% | 18K Ω |
| R1903 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R1904 | ERDS1TJ2R2T | CARBON | 0.5W | 5% | 2R2 Ω |
| R1905 | ERJ6GEYJ753V | S.M.CARB | 0.1W | 5% | 75K Ω |
| R1906 | ERJ6GEYJ753V | S.M.CARB | 0.1W | 5% | 75K Ω |
| R1907 | ERJ6GEYJ753V | S.M.CARB | 0.1W | 5% | 75K Ω |
| R1908 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1909 | ERDS1TJ2R2T | CARBON | 0.5W | 5% | 2R2 Ω |
| R1910 | ERDS1TJ8R2T | CARBON | 0.5W | 5% | 8R2 Ω |
| R1911 | ERDS1TJ8R2T | CARBON | 0.5W | 5% | 8R2 Ω |
| R1912 | ERC12ZGK335D | SOLID | 0.5W | 10% | 3M3 Ω ⚠ |
| R1913 | ERJ6GEYJ472V | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1914 | ERJ6GEYJ272V | S.M.CARB | 0.1W | 5% | 2K7 Ω |
| R2101 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2102 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2103 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2109 | ERJ6GEYJ183V | S.M.CARB | 0.1W | 5% | 18K Ω |
| R2110 | ERJ6GEY0R00V | S.M.CARB | 0.1W | 5% | 0 Ω |
| R2111 | ERJ6GEYJ221V | S.M.CARB | 0.1W | 5% | 220 Ω |
| R2112 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R2113 | ERJ6GEYJ562V | S.M.CARB | 0.1W | 5% | 5K6 Ω |
| R2114 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2115 | ERJ6GEYJ822V | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R2116 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2117 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2118 | ERJ6GEYJ822V | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R2119 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2120 | ERJ6GEYJ222V | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R2200 | ERJ6GEYJ183V | S.M.CARB | 0.1W | 5% | 18K Ω |
| R2201 | ERJ6GEYJ393V | S.M.CARB | 0.1W | 5% | 39K Ω |
| R2202 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2203 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2204 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |

| Cct Ref | Parts Number | Description | | | |
|---|---|---|---|---|---|
| R2206 | ERJ6GEYJ272V | S.M.CARB | 0.1W | 5% | 2K7 Ω |
| R2207 | ERJ6GEYJ123V | S.M.CARB | 0.1W | 5% | 12K Ω |
| R2208 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2209 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2210 | ERJ6GEYJ822V | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R2211 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R2212 | ERJ6GEYJ224V | S.M.CARB | 0.1W | 5% | 220K Ω |
| R2213 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2214 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2215 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R2216 | ERJ6GEYJ222V | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R2217 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2218 | ERJ6GEYJ221V | S.M.CARB | 0.1W | 5% | 220 Ω |
| R2219 | ERJ6GEYJ222V | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R2220 | ERJ6GEYJ183V | S.M.CARB | 0.1W | 5% | 18K Ω |
| R2221 | ERJ6GEYJ393V | S.M.CARB | 0.1W | 5% | 39K Ω |
| R2222 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2223 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2224 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R2226 | ERJ6GEYJ272V | S.M.CARB | 0.1W | 5% | 2K7 Ω |
| R2227 | ERJ6GEYJ123V | S.M.CARB | 0.1W | 5% | 12K Ω |
| R2228 | ERJ6GEYJ154V | S.M.CARB | 0.1W | 5% | 150K Ω |
| R2229 | ERJ6GEYJ221V | S.M.CARB | 0.1W | 5% | 220 Ω |
| R2230 | ERJ6GEYJ822V | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R2231 | ERJ6GEYJ682V | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R2232 | ERJ6GEYJ224V | S.M.CARB | 0.1W | 5% | 220K Ω |
| R2233 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2234 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2235 | ERJ6GEYJ223V | S.M.CARB | 0.1W | 5% | 22K Ω |
| R2236 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2237 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2238 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2239 | ERJ6GEYJ154V | S.M.CARB | 0.1W | 5% | 150K Ω |
| R2240 | ERJ6GEYJ473V | S.M.CARB | 0.1W | 5% | 47K Ω |
| R2241 | ERJ6GEYJ220V | S.M.CARB | 0.1W | 5% | 22 Ω |
| R2302 | ERJ6GEYJ104V | S.M.CARB | 0.1W | 5% | 100K Ω |
| R2303 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2304 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2305 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R2306 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2308 | ERJ6GEYJ104V | S.M.CARB | 0.1W | 5% | 100K Ω |
| R2309 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2310 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2311 | ERJ6GEYJ102V | S.M.CARB | 0.1W | 5% | 1K Ω |
| R2312 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3001 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3002 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R3003 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3004 | ERJ6GEYJ153V | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3005 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3006 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R3007 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3008 | ERJ6GEYJ153V | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3010 | ERDS2TJ750T | CARBON | 0.25W | 5% | 75 Ω |
| R3013 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3014 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R3015 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3016 | ERJ6GEYJ153V | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3017 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3018 | ERJ6GEYJ471V | S.M.CARB | 0.1W | 5% | 470 Ω |
| R3019 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3020 | ERJ6GEYJ153V | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3021 | ERJ6GEYJ750V | S.M.CARB | 0.1W | 5% | 75 Ω |
| R3046 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3047 | ERJ6GEYJ101V | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3048 | ERJ6GEYJ103V | S.M.CARB | 0.1W | 5% | 10K Ω |

| Cct Ref | Parts Number | Description | | |
|---|---|---|---|---|
| C1517 | ECJ2YB1H473K | ELECT | 350V | 47nF |
| C1518 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1519 | ECUV1H050CCX | S.M. CAP | 50V | 50pF |
| C1520 | ECUV1H050CCX | S.M. CAP | 50V | 50pF |
| C1521 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1522 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1523 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1524 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1525 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1526 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1527 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1528 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1529 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1530 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1531 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1532 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1540 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C1541 | ECJ2VB1H333K | ELECT | 350V | 33nF |
| C1542 | ECJ2VB1H333K | ELECT | 350V | 33nF |
| C1543 | ECJ2VB1C224K | ELECT | 350V | 220nF |
| C1544 | ECJ2VB1H333K | ELECT | 350V | 33nF |
| C1545 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1546 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1547 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1548 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1549 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1550 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1551 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1552 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1553 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1554 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1555 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1556 | ECUV1H270JCX | S.M. CAP | 50V | 27pF |
| C1557 | ECUV1H270JCX | S.M. CAP | 50V | 27pF |
| C1558 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1559 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1560 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1561 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1562 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1563 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1564 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1566 | ECUV1H270JCX | S.M. CAP | 50V | 27pF |
| C1567 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1568 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1569 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1570 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1571 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1572 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1573 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1574 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1575 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1576 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1577 | ECUV1H270JCX | S.M. CAP | 50V | 27pF |
| C1578 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1579 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1580 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1581 | ECJ2VB1C224K | ELECT | 350V | 220nF |
| C1582 | ECJ2VB1C224K | ELECT | 350V | 220nF |
| C1583 | ECJ2VB1C224K | ELECT | 350V | 220nF |
| C1584 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1585 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1586 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1587 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1588 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1589 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1590 | ECJ2VB1H103K | ELECT | 350V | 10nF |

| Cct Ref | Parts Number | Description | | |
|---|---|---|---|---|
| C1591 | ECEA1CKA100B | ELECT | 16V | 10µF |
| C1592 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C1594 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C1596 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C1603 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C1900 | ECQB1H153JF3 | FILM | 50V | 15nF |
| C1901 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1903 | ECA1EM470B | ELECT | 25V | 47µF |
| C1904 | ECQB1H104JF3 | FILM | 50V | 100nF |
| C1905 | ECQB1H104JF3 | FILM | 50V | 100nF |
| C1906 | ECQU2A474MLA | FILM | 250V | 470nF ⚠ |
| C1907 | 222233821224 | FILM | 250V | 220nF ⚠ |
| C1909 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C2101 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2102 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2103 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2104 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2105 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2106 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2107 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2108 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2109 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2110 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2111 | ECA1CM100B | ELECT | 16V | 10µF |
| C2112 | ECA1CM100B | ELECT | 16V | 10µF |
| C2113 | ECA1HM3R3B | ELECT | 50V | 3R3µF |
| C2114 | ECJ2VF1H104Z | ELECT | 350V | 100nF |
| C2115 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2116 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2117 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2118 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2119 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2120 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2121 | ECA1CM100B | ELECT | 16V | 10µF |
| C2122 | ECJ2VF1H104Z | ELECT | 350V | 100nF |
| C2123 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2124 | ECUV1H560JCX | S.M. CAP | 50V | 56pF |
| C2125 | ECUV1H470JCX | S.M. CAP | 50V | 47pF |
| C2126 | ECUV1H560JCX | S.M. CAP | 50V | 56pF |
| C2127 | ECUV1H010CCX | S.M. CAP | 50V | 1pF |
| C2128 | ECUV1H010CCX | S.M. CAP | 50V | 1pF |
| C2129 | ECA1CM102B | ELECT | 16V | 1000µF |
| C2130 | ECA1CM331B | ELECT | 16V | 330µF |
| C2134 | ECJ2VF1H103Z | ELECT | 350V | 10nF |
| C2135 | SMG1CV101MT5 | ELECT | 16V | 100µF |
| C2136 | ECJ2VF1H104Z | ELECT | 350V | 100nF |
| C2137 | ECA1CM100B | ELECT | 16V | 10µF |
| C2138 | ECUV1H471KBX | S.M. CAP | 50V | 470pF |
| C2139 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2140 | SMG1CV101MT5 | ELECT | 16V | 100µF |
| C2141 | ECUV1H152JCX | S.M. CAP | 50V | 1.5pF |
| C2200 | ECUV1H562KBX | S.M. CAP | 50V | 5.6nF |
| C2201 | ECA1HM100B | ELECT | 50V | 10µF |
| C2202 | ECA0JM101B | ELECT | 400V | 100µF |
| C2204 | ECA1CM470B | ELECT | 16V | 47µF |
| C2205 | ECUV1H562KBX | S.M. CAP | 50V | 5.6nF |
| C2206 | ECA1HM2R2B | ELECT | 50V | 2.2µF |
| C2207 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C2208 | ECJ2YB1H683K | ELECT | 50V | 68nF |
| C2209 | ECUV1H681JCX | S.M. CAP | 50V | 680pF |
| C2211 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C2212 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C2213 | ECJ2VB1H223K | ELECT | 350V | 22nF |
| C2215 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C2216 | ECUV1H121JCX | S.M. CAP | 50V | 120pF |
| C2217 | ECJ2VB1H223K | ELECT | 350V | 22nF |



| Cct Ref | Parts Number | Description | | |
|---|---|---|---|---|
| C2220 | ECUV1H562KBX | S.M. CAP | 50V | 5.6pF |
| C2221 | ECA1HM100B | ELECT | 50V | 10µF |
| C2222 | ECA0JM101B | ELECT | 400V | 100µF |
| C2225 | ECUV1H562KBX | S.M. CAP | 50V | 5.6nF |
| C2226 | ECA1HM2R2B | ELECT | 50V | 2.2µF |
| C2227 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C2228 | ECJ2YB1H683K | ELECT | 50V | 68nF |
| C2229 | ECUV1H681JCX | S.M. CAP | 50V | 680pF |
| C2231 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C2232 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C2235 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C2236 | ECUV1H121JCX | S.M. CAP | 50V | 120pF |
| C2240 | ECA1CM471B | ELECT | 16V | 470µF |
| C2301 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C2302 | ECA1CM470B | ELECT | 16V | 47µF |
| C2303 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C2304 | ECA1CM470B | ELECT | 16V | 47µF |
| C3001 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3002 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3003 | ECA1CM470B | ELECT | 16V | 47µF |
| C3005 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3006 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF |
| C3007 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3008 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3009 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3010 | ECA1CM470B | ELECT | 16V | 47µF |
| C3012 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3013 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF |
| C3014 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3015 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3016 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3017 | ECA1CM470B | ELECT | 16V | 47µF |
| C3019 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3020 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF |
| C3021 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3022 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3023 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3024 | ECA1CM470B | ELECT | 16V | 47µF |
| C3026 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3027 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF |
| C3028 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3030 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3031 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3032 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3111 | ECUV1H222KBX | S.M. CAP | 50V | 2.2nF |
| C3201 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C3202 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C3203 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3204 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3205 | ECA1HM470B | ELECT | 50V | 47µF |
| C3206 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3207 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3208 | ECA1HM470B | ELECT | 50V | 47µF |
| C3209 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C3210 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C3211 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C3212 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C3213 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C3214 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C3215 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C3216 | ECA1CM330B | ELECT | 16V | 33µF |
| C3217 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C3221 | ECA1CM221B | ELECT | 16V | 220µF |
| C3351 | ECA1CM221B | ELECT | 16V | 220µF |
| **TERMINALS AND LINKS** | | | | |
| JK381 | TJS1A5230B | CRT SOCKET | | ⚠ |

| Cct Ref | Parts Number | Description | |
|---|---|---|---|
| JK2301 | JPJ841101320 | RCA SOCKET | |
| JK3001 | 350808500 | SCART SOCKET | |
| JK3201 | TJB8E026 | AV TERMINAL | |
| **SWITCHES** | | | |
| S802 | ESB92S11B | SWITCH | ⚠ |
| S1251 | EVQ21405R | SWITCH | |
| S1252 | EVQ21405R | SWITCH | |
| S1253 | EVQ21405R | SWITCH | |
| S1254 | EVQ21405R | SWITCH | |
| S1255 | EVQ21405R | SWITCH | |
| **RELAYS** | | | |
| RL801 | TSE1885-1 | RELAY | ⚠ |

## DIFFERENCES FOR MODEL TX--28PL10D

**EXPLODED VIEW**

| | | | |
|---|---|---|---|
| 25 | TNP8EE013DF | E P.C.B. | ⚠ |
| 26 | TBM8E2220-1 | MODEL LABEL | |

**INSTRUCTION BOOKS**

| | | |
|---|---|---|
| . | TQB8E3445A | GERMAN |
| . | TQB8E3445C | ITALIAN |
| . | TQB8E3445D | FRENCH |

## DIFFERENCES FOR MODEL TX--28PL10F

**EXPLODED VIEW**

| | | | |
|---|---|---|---|
| 25 | TNP8EE013DG | E P.C.B. | ⚠ |
| 26 | TBM8E2221 | MODEL LABEL | |

**INSTRUCTION BOOKS**

| | | |
|---|---|---|
| . | TQB8E3441A | GERMAN |
| . | TQB8E3441B | DUTCH |
| . | TQB8E3441D | FRENCH |
| . | TQB8E3441E-1 | SPANISH |
| . | TQB8E3441F | SWEDISH |
| . | TQB8E3441G | NORWEGIAN |
| . | TQB8E3441H | FINNISH |
| . | TQB8E3441K | DANISH |

## NOTES



## SCHEMATIC DIAGRAMS

## (EURO-4H CHASSIS)

**IMPORTANT SAFETY NOTICE**

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

**NOTES**

1. RESISTOR
   All resistors are carbon ¼W resistor, unless marked otherwise.
   Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
   All capacitors are ceramic 50V unless marked otherwise.
   Unit of capacitance is µF unless otherwise stated.
3. COIL
   Unit of inductance is µH, unless otherwise stated.
4. Components marked "L" on the schematic diagram shows leadless parts.
5. TEST POINT
   Test Point Position
6. EARTH SYMBOL
   Chassis Earth (Cold) Line Earth (Hot)
7. VOLTAGE MEASUREMENT
   Voltage is measured by a d.c. voltmeter.
   Measurement conditions are as follows:

| | |
|---|---|
| Power source | a.c. 220V-240V, 50Hz |
| Receiving Signal | Colour Bar signal (RF) |
| All customer controls | Maximum position |

8. Indicates the Video signal path
   Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

**REMARKS**

1. The Power Supply Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits except the Power Circuit, are COLD. Take the following precautions :-

a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simutaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
d. Make sure to disconnect the power plug before removing the chassis.

## ZEICHENERKLÄRUNG FÜR

## (EURO-4H CHASSIS)

**WICHTIGER SICHERHEITSHINWEIS**

Teile, die mit einen Hinweis ⚠ gekennzeichnet sind, sind wichtig für die Sicherheit, Sollte ein Auswechsein erforderlich sein, sind unbedingt Originalteile einzusetzen.

**ANMERKUNG**

1. WIDERSTÄNDE
   Alle ¼W Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet.
   Die Maßeinheit ist OHM (Ω) (k=1,000, M=1,000,000)
2. KONDENSATOREN
   Alle Kondensatoren sind Keramikausführungen. Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet. Die Maßeinheit ist µF, wenne keine anderen Bezeichnungen gennant sind.
3. SPULEN
   Die Maßeinheit ist µH, Abweichungen sind gekennzeichnet.
4. Mit "L" gekennzeichnete Teile sind ohne Anschlußdrähte.
5. TESTPUNKTE
   Kennzeichnung der Testpunktposition
6. MASSE SYMBOL
   Erdung am Chassis Erdung an Masse-Leitung
7. SPANNUNGSMESSUNG
   Spannungsmessungen sind mit einem d.c.-Voltmeter durchzuführen. Die Meßbedingungen sind folgende:

| | |
|---|---|
| Netzspannung | a.c. 220V-240V, 50Hz |
| Wiedregabe Signal | Farbbalken-Testbild |
| Wiedergabesignal Farbbalken-Testbild (HF) | |

8. Videosignalweg
   Audiosignalweg

Änderungen im Laufe der Fertigung sind möglich.

**BEMERKUNGEN**

1. Das Schaltnetzteil enthält Bereiche, die direkt mit dem Netz verbunden sind. Diese Bereiche sind im Schaltplan mit HOT gekennzeichnet. Alle anderen Schaltungen sind mit COLD gekennzeichnet und haben keine direkte Verbindung mit den Netz :-

a. Weder die Leitungen im heißen noch Leitungen im
b. heißen und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schlages.
c. Keinesfalls die Leitungen im heißen Bereich mit denen im kalten Bereich verbinden oder kurzschliessen. Dies kann zur Zerstörung von Bauteilen oder Sicherungen führen. Außerdem ist die elektrische Betriebssicherheit des Gerätes nicht mehr gegeben.
   Keine Messinstrumente gleichzeitig an Leitungen im heissen und kalten Bereich anschliessen. Sicherungen könnten zerstört werden. Die Erde des Messinstrumentes immer mit der des zu prüfenden Schaltkreises verbinden.
d. Vor Ausbau des Chassis, Stecker aus der Netzsteckdose ziehen.

TNP8EY018
Y-BOARD ⚠

IC351 TDA6111Q/N4 R-OUT
IC361 TDA6111Q/N4 V-OUT
IC371 TDA6111Q/N4 B-OUT
TUC8E6691 HEAT SINK
IC381 TL431ACLPM

Y2 E8 12V GND G B R SENSE SVM
Y5 VM COIL
Y3 E3 150V 200V HEATER GND
Y1 CRT GND
Y8
Y4
CRT KR KB KG G1 G2 G3
SCREEN FOCUS EHT

Q906 BC847B
Q907 BC857B
Q905 BC847B
Q908 2SA1535ARLB
Q909 2SC3944ARLB
Q3352 BC857B
Q351 2SA1767QTA
Q361 2SA1767QTA
Q371 2SA1767QTA

D902 1SS133T-77
D901 1SS133T-77
D903 1SS133T-77
D907 1SS133T-77
D3351 1SS133T-77
D3352 1SS133T-77
D376 1SS133T-77
D377 1SS133T-77
D3353 1SS133T-77
D378 1SS133T-77
D3354 1SS133T-77
D910 R2KNLFA1
D352 ERA15-04
D361 ERA15-04
D362 ERA15-04
D371 ERA15-04
D387 MA2160LFS
JK381 TJS1A5230B

JSY5 JSY11 JSY10 JSY9 JSY6 JSY7 JSY8 JSY04
TP11 TP15 TP16 TP26 TP3 TP4 TP19 TP6 TP5 TP7
TPY1 TPY2 TPY3 TPKB TPKR TPKG

R936 1000 1W
R935 3.9
R924 39 1.2W
R928 5.6
R938 1.2k
R925 0
R926 0
R915 820
R937 10
R919 39
R920 39
R923 68k
R922 68k
R927 1.2k
R941 5.6
R931 39 1.2W
R913 18k
R914 3.3k
R916 220
R917 120
R918 0
R912 1.2W
R3354 1k
R3355 390
R3360 470 1/2W
R383 0
R350 150 1/2W
R352 2k
R3356 680
R394 820
R355 1W 68k
R356 180
R362 2k
R3357 680
R396 820
R365 1W 68k
R366 180
R372 2k
R3358 680
R398 820
R375 1W 68k
R376 180
R3361 113k 1/2W 1%
R357 8.2k
R358 820 1/2W
R385 1.2 1/2W
R378 820 1/2W
R367 8.2k
R363 1k
R3362 1k
R3363 1k
R3364 1k
R377 8.2k
R332
R360 8250 1W
L353
L363 820 10
L373 15
L381 22u
L382 6.8
L912 EXCELSA35T
L911 EXCELSA35T
L910 EXCELSA35T

C916 250V 22
C902 35V 100
C913 16V 100
C904 0.01
C918 0.01
C917 50V 10
C906 56n
C909 500V 4700p
C910 500V 4700p
C907 330p
C919 500V 27p
C912 250V 22
C914 16V 100
C369 22p
C384 250V 0.1
C385 250V 22
C3351 16V 220
C381 100 16V
C382 16V 470
C383 0.01
C352 0.22
C353 0.1
C350 1n
C354 0.1 250V
C355 1n 500V
C358 2.2n
C362 0.22
C363 0.1
C364 0.1 250V
C365 1n 500V
C368 2.2n
C372 0.22
C373 0.1
C370 1n
C374 0.1 250V
C375 1n 500V
C378 2.2n
C386 1500p 2kV
C395 0.1 50V
R3332

TNP8EF007
F-BOARD ⚠

IC1502
CIP3250APSB1

IC1503
SDA9400

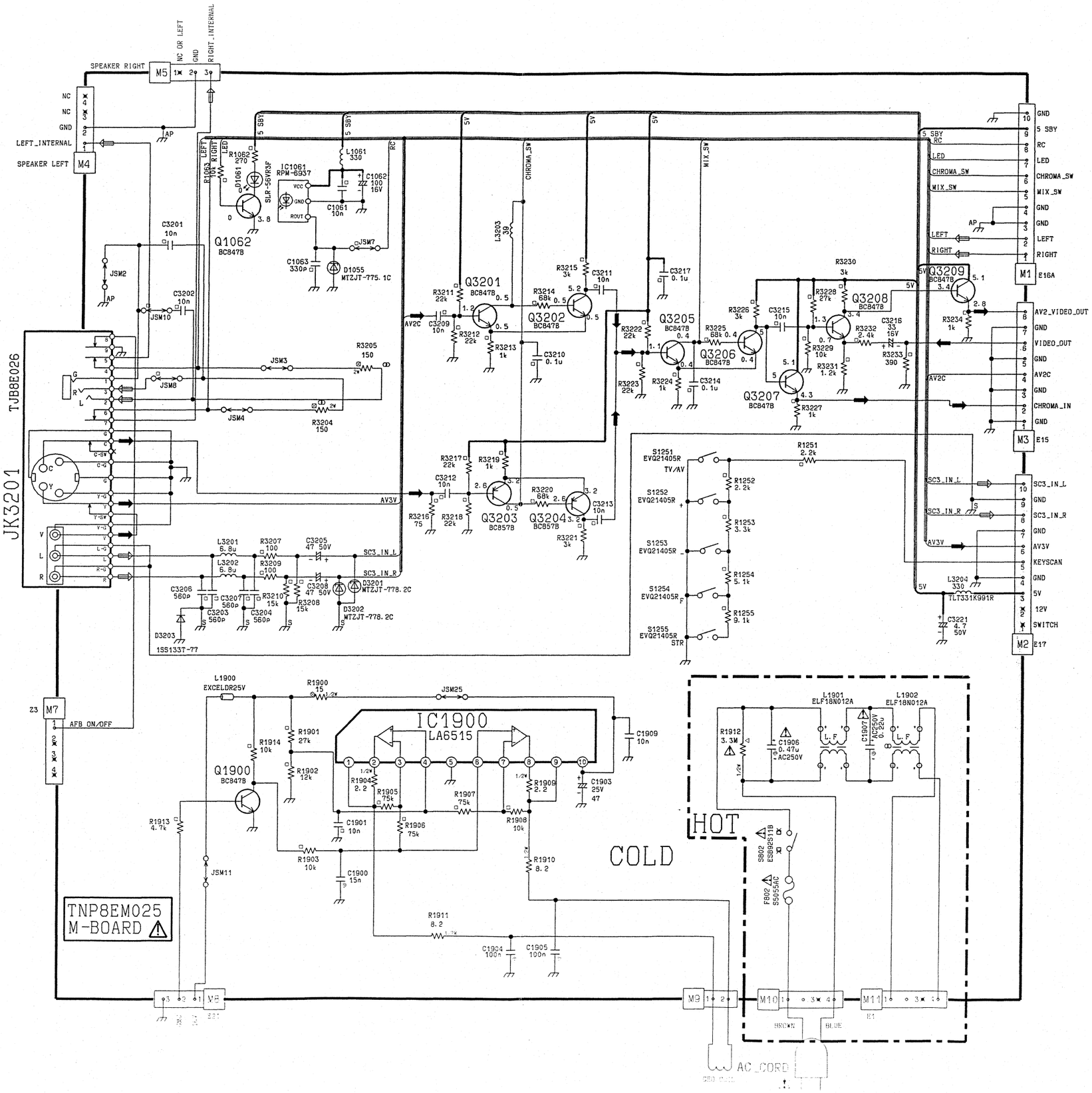
IC1504
DDP3310BPSE4

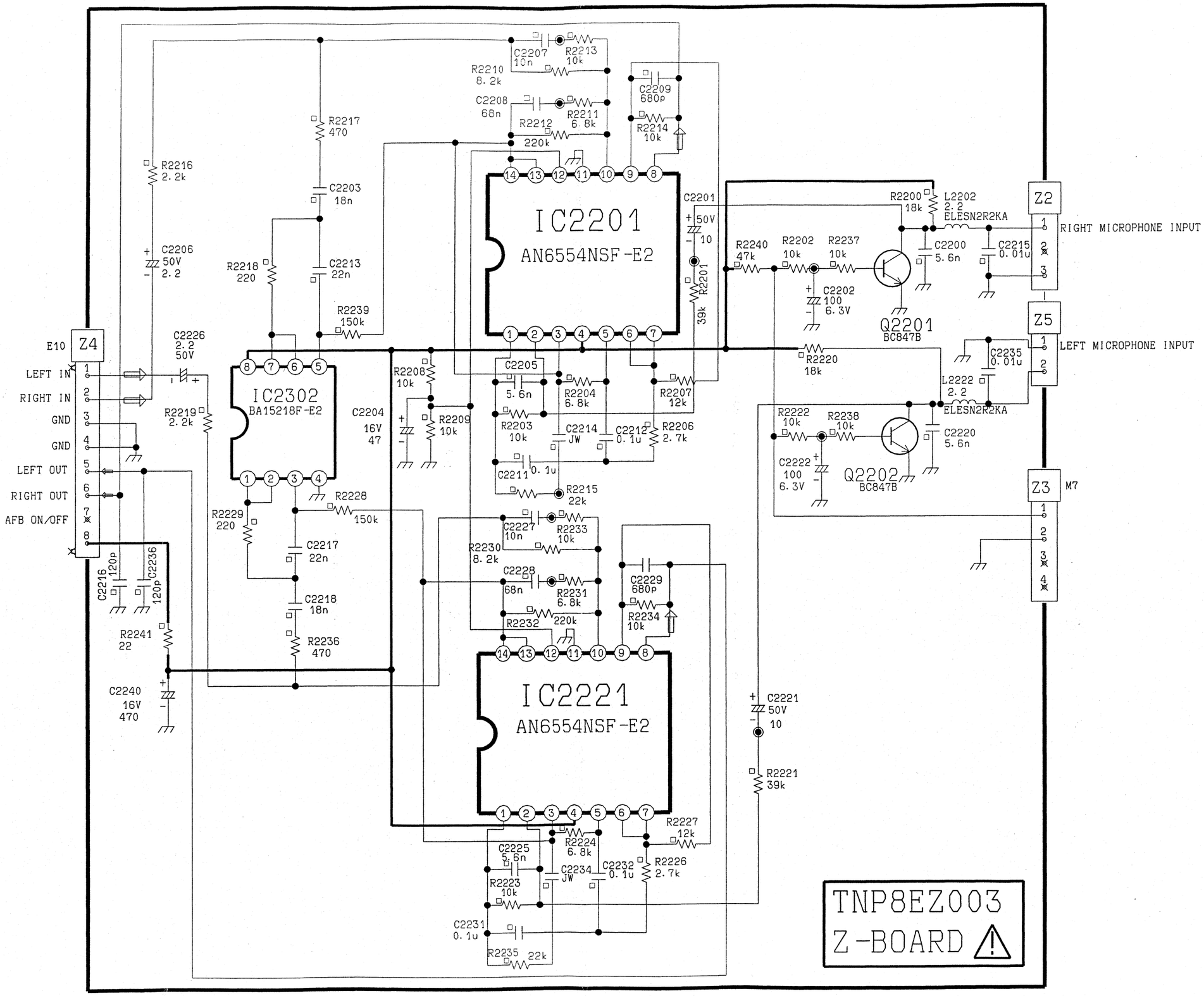
IC1501
VPC3215CB8TP

Q1501 BC847B
Q1502 BC857B
Q1503 BC847B
Q1504 BC847B
Q1505 BC857B
Q1506 BC847B
Q1507 BC857B
Q1508 BC857B
Q1509 BC847B
Q1510 BC857B
Q1511 BC857B
Q1512 BC847B
Q1513 BC847B
Q1514 BC847B
Q1515 BC847B

X1501 4736007267
X1502 4730007341

F1
E70


SPEAKER RIGHT
M5
NC OR LEFT
GND
RIGHT_INTERNAL
NC
NC
GND
LEFT_INTERNAL
SPEAKER LEFT
M4
AP
JK3201
TJB8E026
C3201 10n
C3202 10n
JSM2
JSM10
JSM3
JSM8
JSM4
R3205 150
R3204 150
L3201 6.8u
L3202 6.8u
R3207 100
R3209 100
C3205 47 50V
C3208 47 50V
SC3_IN_L
SC3_IN_R
D3201 MTZJT-778.2C
D3202 MTZJT-778.2C
C3206 560p
C3207 560p
C3203 560p
C3204 560p
R3210 15k
R3208 15k
D3203 1SS133T-77
5 SBY
5V
LED
RC
CHROMA_SW
MIX_SW
R1062 270
D1061 SLR-56VR3F
IC1061 RPM-6937
L1061 330
C1062 100 16V
C1061 10n
Q1062 BC847B
C1063 330p
D1055 MTZJT-775.1C
JSM7
L3203 39
Q3201 BC847B
R3211 22k
R3212 22k
R3213 1k
R3214 68k
Q3202 BC847B
C3209 10n
C3210 0.1u
C3211 10n
C3217 0.1u
AV2C
Q3205 BC847B
R3222 22k
R3223 22k
R3224 1k
R3225 68k
Q3206 BC847B
C3214 0.1u
R3226 3k
C3215 10n
Q3207 BC847B
R3227 1k
R3228 27k
R3229 10k
R3231 1.2k
Q3208 BC847B
R3230 3k
R3232 2.4k
C3216 33 16V
R3233 390
Q3209 BC847B
R3234 1k
AV3V
R3217 22k
R3219 1k
C3212 10n
R3216 75
R3218 22k
Q3203 BC857B
R3220 68k
Q3204 BC857B
C3213 10n
R3221 3k
S1251 EVQ21405R TV/AV
S1252 EVQ21405R
S1253 EVQ21405R
S1254 EVQ21405R
S1255 EVQ21405R STR
R1251 2.2k
R1252 2.2k
R1253 3.3k
R1254 5.1k
R1255 9.1k
L3204 330
TL1331K991R
C3221 4.7 50V
M1 E16A
M3 E15
M2 E17
AV2_VIDEO_OUT
VIDEO_OUT
CHROMA_IN
KEYSCAN
SWITCH
23 M7
AFB ON/OFF
L1900 EXCELDR25V
R1900 15
JSM25
IC1900 LA6515
R1901 27k
R1902 12k
R1914 10k
Q1900 BC847B
R1913 4.7k
R1903 10k
JSM11
R1904 2.2
R1905 75k
R1906 75k
R1907 75k
R1908 10k
R1909 2.2
C1901 10n
C1900 15n
C1903 25V 47
C1909 10n
R1910 8.2
R1911 8.2
C1904 100n
C1905 100n
TNP8EM025
M-BOARD
V8
M9
M10
M11
HOT
COLD
L1901 ELF18N012A
L1902 ELF18N012A
R1912 3.3M
C1906 0.47u AC250V
C1907 AC250V 0.22u
S802 ESB92511B
F802 S5055AC
BROWN
BLUE
AC_CORD


IC2201
AN6554NSF-E2
IC2302
BA15218F-E2
IC2221
AN6554NSF-E2
Q2201
BC847B
Q2202
BC847B
E10
Z4
Z2
Z5
Z3
M7
LEFT IN
RIGHT IN
GND
GND
LEFT OUT
RIGHT OUT
AFB ON/OFF
RIGHT MICROPHONE INPUT
LEFT MICROPHONE INPUT
ELESN2R2KA
ELESN2R2KA
R2210 8.2k
C2207 10n
R2213 10k
C2208 68n
R2211 6.8k
R2212 220k
C2209 680p
R2214 10k
R2216 2.2k
R2217 470
C2203 18n
C2206 50V 2.2
R2218 220
C2213 22n
R2239 150k
C2226 2.2 50V
R2219 2.2k
C2201 50V 10
R2201 39k
R2240 47k
R2202 10k
R2237 10k
C2202 100 6.3V
R2200 18k
L2202 2.2
C2200 5.6n
C2215 0.01u
R2220 18k
C2235 0.01u
L2222 2.2
R2222 10k
R2238 10k
C2220 5.6n
C2222 100 6.3V
R2208 10k
C2204 16V 47
R2209 10k
C2205 5.6n
R2204 6.8k
R2207 12k
R2203 10k
C2214 JW
C2212 0.1u
R2206 2.7k
C2211 0.1u
R2215 22k
R2228 150k
R2229 220
C2217 22n
C2218 18n
R2236 470
C2216 120p
C2236 120p
R2241 22
C2240 16V 470
C2227 10n
R2233 10k
R2230 8.2k
C2228 68n
R2231 6.8k
R2232 220k
C2229 680p
R2234 10k
C2221 50V 10
R2221 39k
R2227 12k
C2225 5.6n
R2224 6.8k
C2234 JW
C2232 0.1u
R2226 2.7k
R2223 10k
C2231 0.1u
R2235 22k
TNP8EZ003
Z-BOARD

TNP8EY018
Y-BOARD ⚠

IC351 TDA6111Q/N4 R-OUT
IC361 TDA6111Q/N4 V-OUT
IC371 TDA6111Q/N4 B-OUT
TUC8E6691 HEAT SINK
IC381 TL431ACLPM

Y2 E8 12V GND G B R SENSE SVM
Y5 VM COIL
Y3 E3 150V 200V HEATER GND
Y1 CRT GND
Y8
Y4
CRT KR KB KG G1 G2 G3
SCREEN FOCUS EHT

Q906 BC847B
Q907 BC857B
Q905 BC847B
Q908 2SA1535ARLB
Q909 2SC3944ARLB
Q3352 BC857B
Q351 2SA1767QTA
Q361 2SA1767QTA
Q371 2SA1767QTA

D902 1SS133T-77
D901 1SS133T-77
D903 1SS133T-77
D907 1SS133T-77
D3351 1SS133T-77
D3352 1SS133T-77
D376 1SS133T-77
D377 1SS133T-77
D3353 1SS133T-77
D378 1SS133T-77
D3354 1SS133T-77
D910 R2KNLFA1
D352 ERA15-04
D361 ERA15-04
D362 ERA15-04
D371 ERA15-04
D387 MA2160LFS
JK381 TJS1A5230B

JSY5 JSY11 JSY10 JSY9 JSY6 JSY7 JSY8 JSY04
TP11 TP15 TP16 TP26 TP3 TP4 TP19 TP6 TP5 TP7
TPY1 TPY2 TPY3 TPKB TPKR TPKG

R936 1000 1W
R935 3.9
R924 39 1.2W
R928 5.6
R938 1.2k
R925 0
R926 0
R915 820
R937 10
R919 39
R920 39
R923 68k
R922 68k
R927 1.2k
R941 5.6
R931 39 1.2W
R913 18k
R914 3.3k
R916 220
R917 120
R918 0
R912 1.2W
R3354 1k
R3355 390
R3360 470 1/2W
R383 0
R350 150 1/2W
R352 2k
R3356 680
R394 820
R355 1W 68k
R356 180
R362 2k
R3357 680
R396 820
R365 1W 68k
R366 180
R372 2k
R3358 680
R398 820
R375 1W 68k
R376 180
R3361 113k 1/2W 1%
R357 8.2k
R358 820 1/2W
R385 1.2 1/2W
R378 820 1/2W
R367 8.2k
R363 1k
R3362 1k
R3363 1k
R3364 1k
R377 8.2k
R332
R360 8250 1W
L353
L363 820 10
L373 15
L381 22u
L382 6.8
L912 EXCELSA35T
L911 EXCELSA35T
L910 EXCELSA35T

C916 250V 22
C902 35V 100
C913 16V 100
C904 0.01
C918 0.01
C917 50V 10
C906 56n
C909 500V 4700p
C910 500V 4700p
C907 330p
C919 500V 27p
C912 250V 22
C914 16V 100
C369 22p
C384 250V 0.1
C385 250V 22
C3351 16V 220
C381 100 16V
C382 16V 470
C383 0.01
C352 0.22
C353 0.1
C350 1n
C354 0.1 250V
C355 1n 500V
C358 2.2n
C362 0.22
C363 0.1
C364 0.1 250V
C365 1n 500V
C368 2.2n
C372 0.22
C373 0.1
C370 1n
C374 0.1 250V
C375 1n 500V
C378 2.2n
C386 1500p 2kV
C395 0.1 50V
R3332

TNP8EF007
F-BOARD ⚠

IC1502
CIP3250APSB1

IC1503
SDA9400

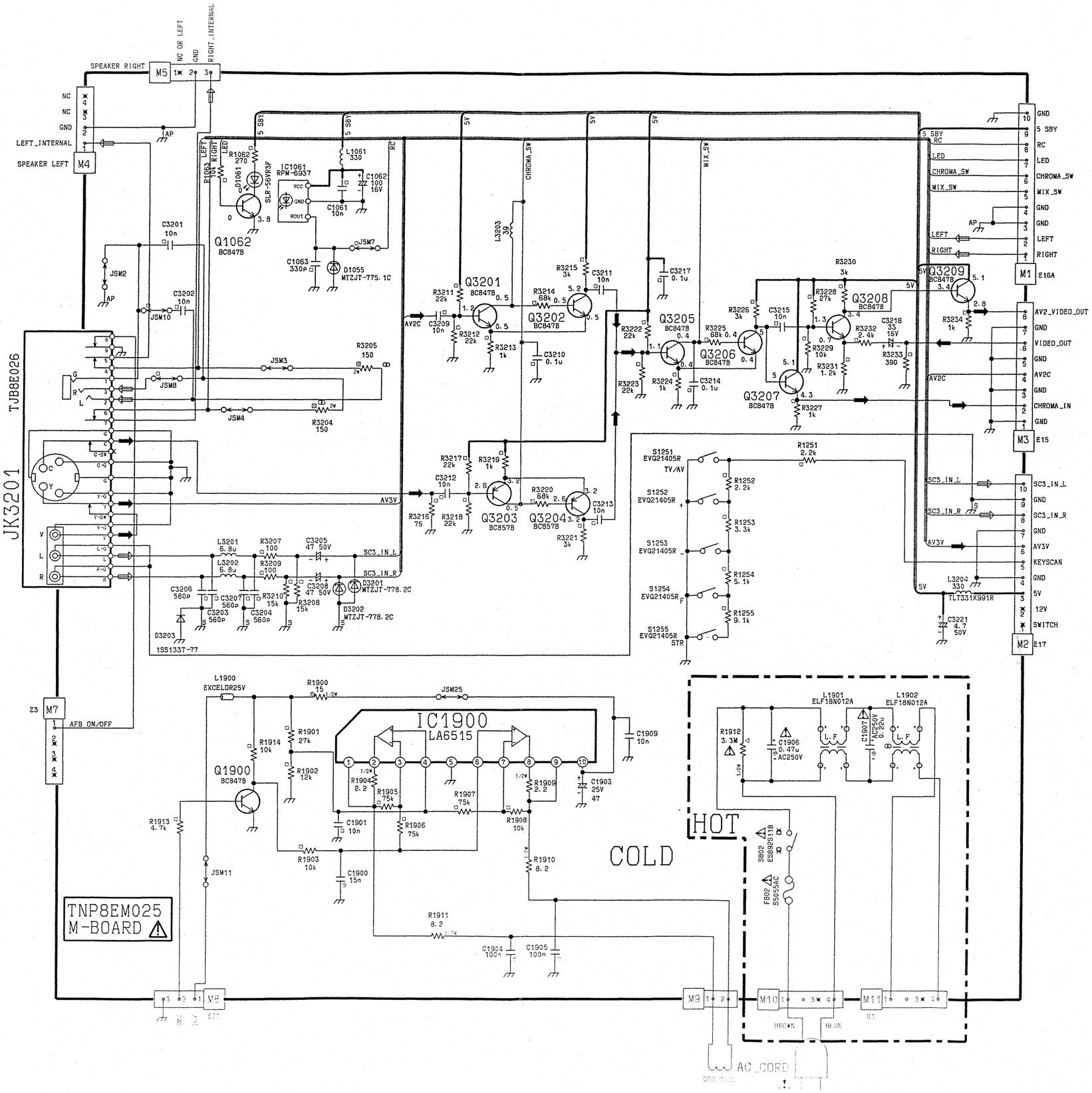
IC1504
DDP3310BPSE4

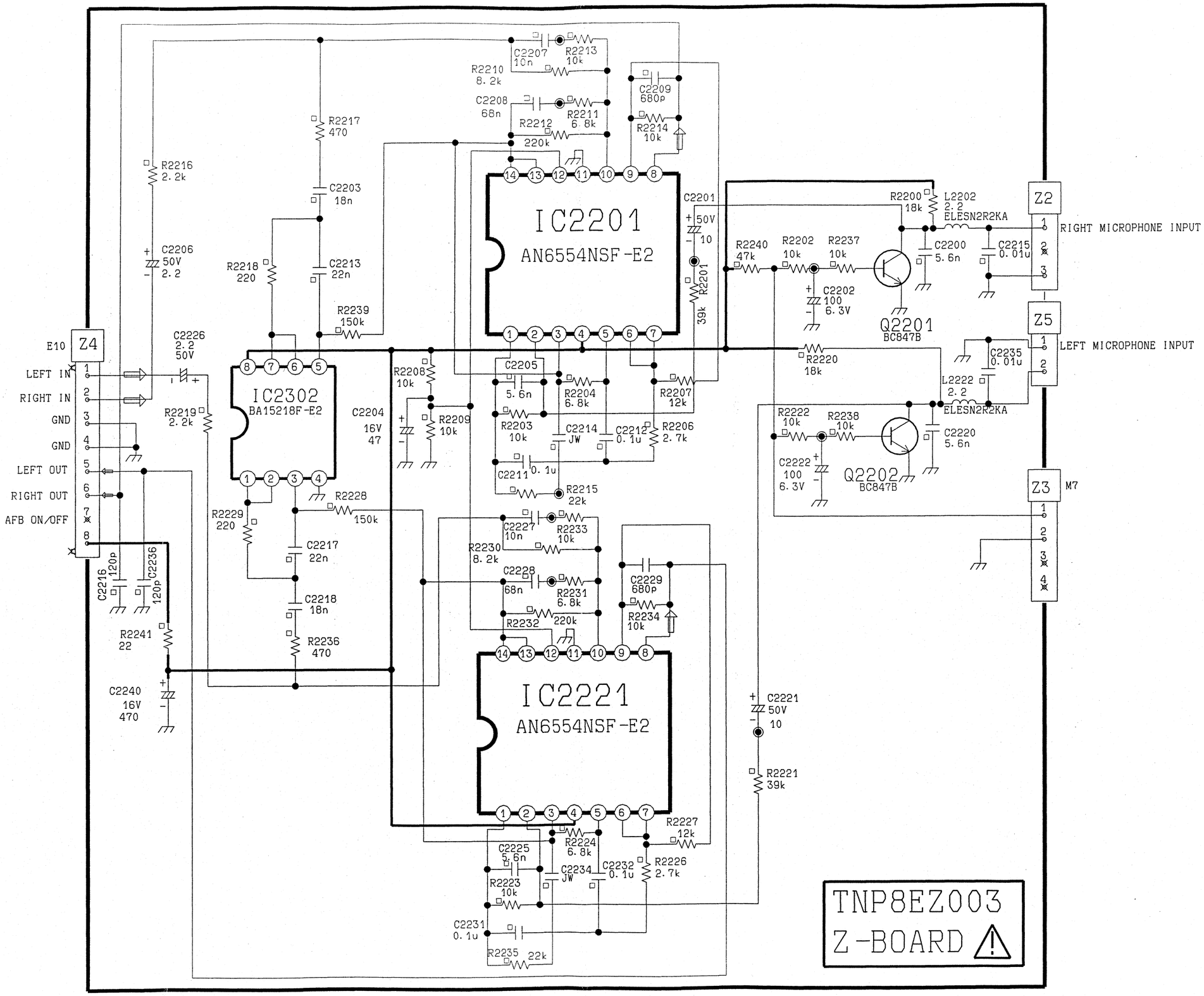
IC1501
VPC3215CB8TP

Q1501 BC847B
Q1502 BC857B
Q1503 BC847B
Q1504 BC847B
Q1505 BC857B
Q1506 BC847B
Q1507 BC857B
Q1508 BC857B
Q1509 BC847B
Q1510 BC857B
Q1511 BC857B
Q1512 BC847B
Q1513 BC847B
Q1514 BC847B
Q1515 BC847B

X1501 4736007267
X1502 4730007341

F1
E70


SPEAKER RIGHT
M5
NC OR LEFT
GND
RIGHT_INTERNAL
NC
NC
GND
LEFT_INTERNAL
SPEAKER LEFT
M4
AP
JK3201
TJB8E026
C3201 10n
C3202 10n
JSM2
JSM10
JSM3
JSM8
JSM4
R3205 150
R3204 150
L3201 6.8u
L3202 6.8u
R3207 100
R3209 100
C3205 47 50V
C3208 47 50V
SC3_IN_L
SC3_IN_R
D3201 MTZJT-778.2C
D3202 MTZJT-778.2C
C3206 560p
C3207 560p
C3203 560p
C3204 560p
R3210 15k
R3208 15k
D3203 1SS133T-77
5 SBY
5V
LED
RC
CHROMA_SW
MIX_SW
R1062 270
D1061 SLR-56VR3F
IC1061 RPM-6937
L1061 330
C1062 100 16V
C1061 10n
Q1062 BC847B
C1063 330p
D1055 MTZJT-775.1C
JSM7
L3203 39
Q3201 BC847B
R3211 22k
R3212 22k
R3213 1k
R3214 68k
Q3202 BC847B
C3209 10n
C3210 0.1u
C3211 10n
C3217 0.1u
AV2C
Q3205 BC847B
R3222 22k
R3223 22k
R3224 1k
R3225 68k
Q3206 BC847B
C3214 0.1u
R3226 3k
C3215 10n
Q3207 BC847B
R3227 1k
R3228 27k
R3229 10k
R3231 1.2k
Q3208 BC847B
R3230 3k
R3232 2.4k
C3216 33 16V
R3233 390
Q3209 BC847B
R3234 1k
AV3V
R3217 22k
R3219 1k
C3212 10n
R3216 75
R3218 22k
Q3203 BC857B
R3220 68k
Q3204 BC857B
C3213 10n
R3221 3k
S1251 EVQ21405R TV/AV
S1252 EVQ21405R
S1253 EVQ21405R
S1254 EVQ21405R
S1255 EVQ21405R STR
R1251 2.2k
R1252 2.2k
R1253 3.3k
R1254 5.1k
R1255 9.1k
L3204 330
TL1331K991R
C3221 4.7 50V
M1 E16A
M3 E15
M2 E17
AV2_VIDEO_OUT
VIDEO_OUT
CHROMA_IN
KEYSCAN
SWITCH
23 M7
AFB ON/OFF
L1900 EXCELDR25V
R1900 15
JSM25
IC1900 LA6515
R1901 27k
R1902 12k
R1914 10k
Q1900 BC847B
R1913 4.7k
R1903 10k
JSM11
R1904 2.2
R1905 75k
R1906 75k
R1907 75k
R1908 10k
R1909 2.2
C1901 10n
C1900 15n
C1903 25V 47
C1909 10n
R1910 8.2
R1911 8.2
C1904 100n
C1905 100n
TNP8EM025
M-BOARD
V8
M9
M10
M11
HOT
COLD
L1901 ELF18N012A
L1902 ELF18N012A
R1912 3.3M
C1906 0.47u AC250V
C1907 AC250V 0.22u
S802 ESB92511B
F802 S5055AC
BROWN
BLUE
AC_CORD


IC2201
AN6554NSF-E2
IC2302
BA15218F-E2
IC2221
AN6554NSF-E2
Q2201
BC847B
Q2202
BC847B
E10
Z4
Z2
Z5
Z3
M7
LEFT IN
RIGHT IN
GND
GND
LEFT OUT
RIGHT OUT
AFB ON/OFF
RIGHT MICROPHONE INPUT
LEFT MICROPHONE INPUT
ELESN2R2KA
ELESN2R2KA
R2210 8.2k
C2207 10n
R2213 10k
C2208 68n
R2211 6.8k
R2212 220k
C2209 680p
R2214 10k
R2216 2.2k
R2217 470
C2203 18n
C2206 50V 2.2
R2218 220
C2213 22n
R2239 150k
C2226 2.2 50V
R2219 2.2k
C2201 50V 10
R2201 39k
R2240 47k
R2202 10k
R2237 10k
C2202 100 6.3V
R2200 18k
L2202 2.2
C2200 5.6n
C2215 0.01u
R2220 18k
C2235 0.01u
L2222 2.2
R2222 10k
R2238 10k
C2220 5.6n
C2222 100 6.3V
R2208 10k
C2204 16V 47
R2209 10k
C2205 5.6n
R2204 6.8k
R2207 12k
R2203 10k
C2214 JW
C2212 0.1u
R2206 2.7k
C2211 0.1u
R2215 22k
R2228 150k
R2229 220
C2217 22n
C2218 18n
R2236 470
C2216 120p
C2236 120p
R2241 22
C2240 16V 470
C2227 10n
R2233 10k
R2230 8.2k
C2228 68n
R2231 6.8k
R2232 220k
C2229 680p
R2234 10k
C2221 50V 10
R2221 39k
R2227 12k
C2225 5.6n
R2224 6.8k
C2234 JW
C2232 0.1u
R2226 2.7k
R2223 10k
C2231 0.1u
R2235 22k
TNP8EZ003
Z-BOARD

# TNP8EE013
# E-BOARD ⚠

AFB

IC1104
MN1381-RTA

IC1102
M27C2000PC12

IC1105
MN1381-TTA

uP
IC1101
SDA5450C59

IC1103
BR24C16

IC2101
MSP3410DPOC5

IC1104 LA4282

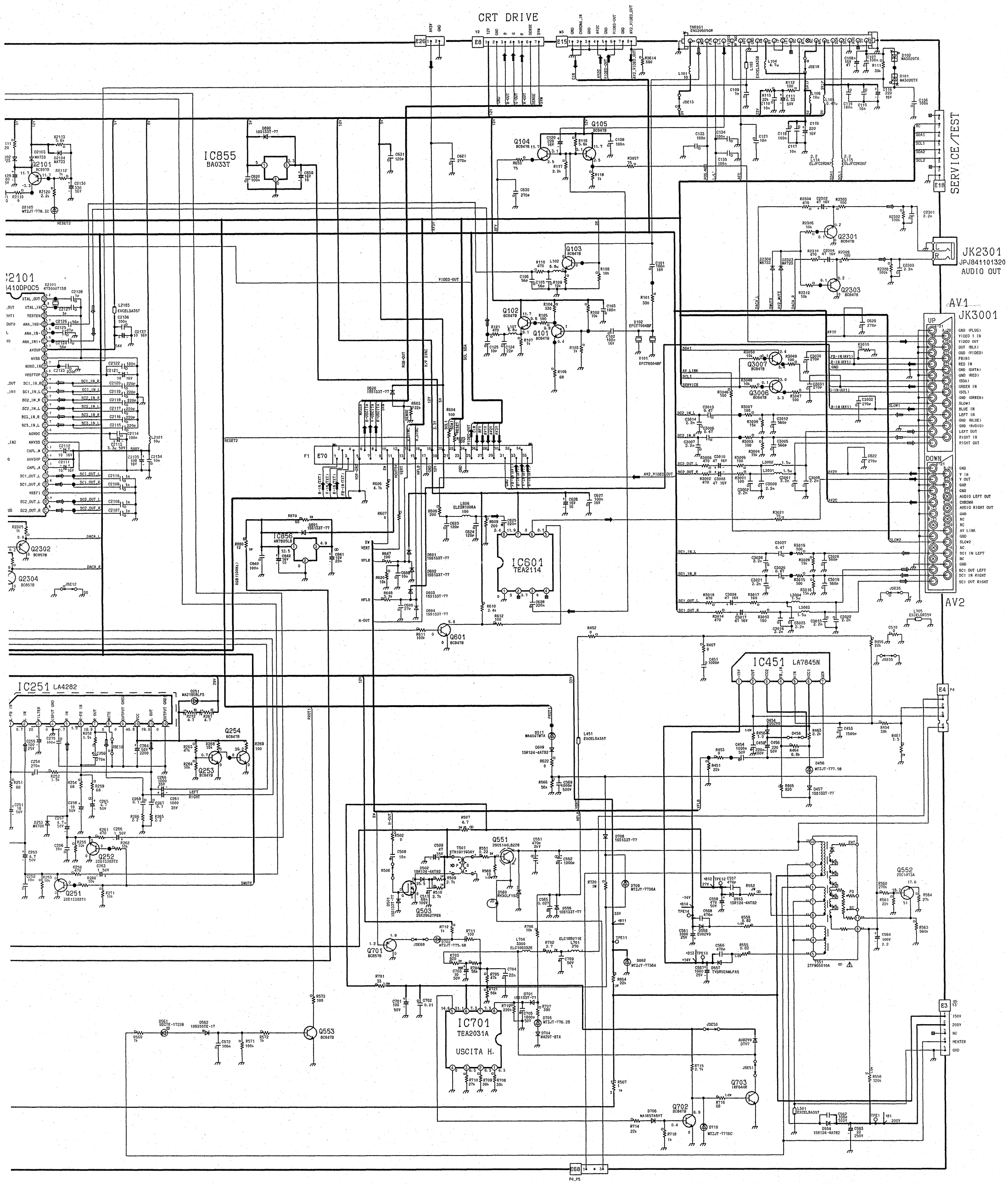
IC853
AN78L08TA

IC852
AN78M09LB1

IC851
BA12T

IC801
STRF6654LF57

IC850
SE140NLF4


CRT DRIVE
SERVICE/TEST
IC855
BA033T
IC451 LA7845N
IC251 LA4282
IC601
TEA2114
IC701
TEA2031A
USCITA H.
IC856
AN7805LB
JK2301
JPJB41101320
AUDIO OUT
AV1
JK3001
AV2
Q2101
Q2102
Q2103
Q2104
Q2105
Q2130
Q2120
Q2110
Q2112
Q2111
Q2134
Q2135
Q2136
Q2137
Q2128
Q2122
Q2123
Q2121
Q2120
Q2119
Q2118
Q2117
Q2116
Q2115
Q2114
Q2113
Q2112
Q2111
Q2110
Q2109
Q2108
Q2107
Q2302
Q2304
Q2305
Q2301
Q2303
Q3007
Q3006
Q3005
Q3004
Q3003
Q3002
Q3001
Q104
Q105
Q103
Q102
Q101
Q601
Q701
Q702
Q703
Q551
Q503
Q552
Q554
Q251
Q252
Q253
Q254
Q553
X2101
X102
X101
TNR001
E26
E8
E15
E18
E68
F1
E70
D2105
D2103
D2104
D0880
D0621
D0631
D0859
D0891
D0601
D0602
D0603
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D0862
D0705
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D0101
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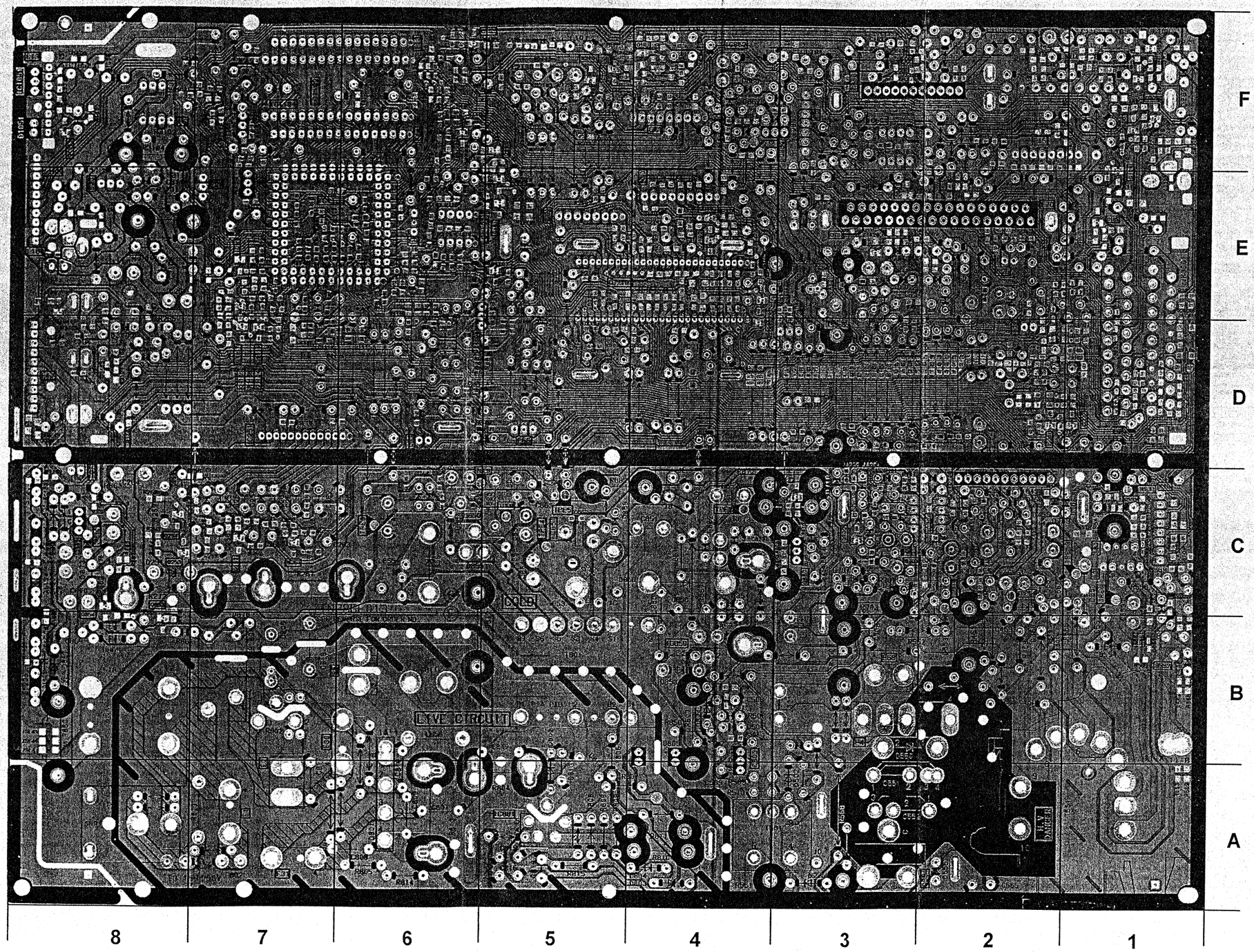
D2336
D2337
D2338
D2339
D2340
D2341
D2342
D2343
D2344

# CONDUCTOR VIEWS FOR MODELS TX-28PL10D, TX-28PL10F
# ANSICHT DER LEITERBAHNEN FÜR TX-28PL10D, TX-28PL10F

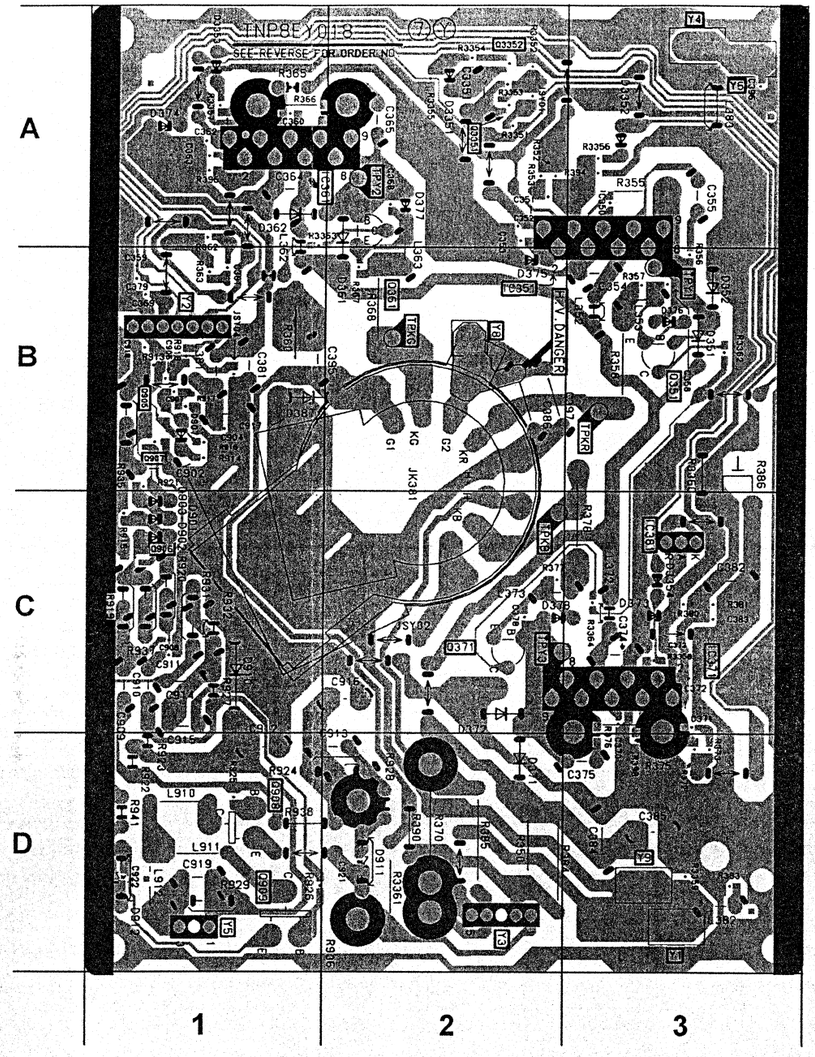
## E-BOARD TNP8EE013

| TRAN'S | | D2104 | F5 | D858 | C6 |
|---|---|---|---|---|---|
| Q101 | F4 | D2105 | F5 | D859 | C4 |
| Q102 | F5 | D2303 | D5 | D861 | F3 |
| Q103 | F5 | D2304 | D5 | D862 | F1 |
| Q104 | E1 | D251 | C7 | D863 | F5 |
| Q105 | E1 | D253 | C7 | D865 | F4 |
| Q1051 | E7 | D254 | C7 | D866 | F4 |
| Q1104 | D7 | D453 | E6 | D867 | B8 |
| Q1105 | D7 | D454 | C2 | D868 | B8 |
| Q1106 | D7 | D456 | C2 | D869 | B8 |
| Q1107 | D7 | D457 | C2 | D870 | B7 |
| Q1108 | F6 | D458 | C2 | D871 | C8 |
| Q2101 | F5 | D501 | B4 | D873 | C8 |
| Q2102 | E4 | D502 | A3 | D874 | B4 |
| Q2103 | D2 | D511 | C1 | D875 | C3 |
| Q2302 | E3 | D553 | B2 | D890 | E2 |
| Q2303 | D1 | D554 | B1 | D891 | E3 |
| Q2304 | D4 | D556 | A2 | | |
| Q251 | C7 | D557 | C1 | IC'S | |
| Q252 | C7 | D558 | C2 | IC1101 | E6 |
| Q253 | C8 | D560 | B2 | IC1102 | F6 |
| Q254 | C8 | D561 | B1 | IC1103 | E6 |
| Q3006 | F1 | D562 | C1 | IC1104 | F7 |
| Q3007 | F1 | D601 | E2 | IC1105 | D5 |
| Q451 | E5 | D602 | E2 | IC2101 | E4 |
| Q503 | A4 | D603 | E2 | IC251 | D7 |
| Q551 | A3 | D604 | E2 | IC451 | C2 |
| Q552 | B1 | D609 | C1 | IC601 | F3 |
| Q553 | C1 | D617 | D8 | IC701 | C2 |
| Q601 | E3 | D620 | F3 | IC801 | A4 |
| Q701 | E3 | D701 | C3 | IC850 | B4 |
| Q702 | C3 | D702 | E3 | IC851 | C5 |
| Q703 | C3 | D704 | C2 | IC852 | F4 |
| Q850 | C5 | D705 | C2 | IC853 | F3 |
| Q851 | F5 | D706 | C3 | IC855 | E2 |
| Q852 | C8 | D707 | C3 | IC856 | E3 |
| Q853 | B8 | D708 | C1 | | |
| Q854 | B8 | D709 | C2 | TP'S | |
| Q855 | C3 | D710 | C3 | TPE1 | C1 |
| Q856 | E5 | D801 | A6 | TPE2 | C4 |
| Q857 | C3 | D803 | A4 | TPE3 | C6 |
| | | D804 | A4 | TPE4 | C5 |
| DIODES | | D805 | B4 | TPE5 | C5 |
| D101 | F1 | D806 | A4 | TPE6 | F3 |
| D102 | F1 | D850 | C4 | TPE7 | F4 |
| D1101 | F1 | D851 | C4 | TPE8 | C5 |
| D1104 | C8 | D852 | B4 | TPE9 | C6 |
| D1105 | B8 | D853 | B4 | TPE10 | C8 |
| D1131 | F7 | D854 | C5 | TPE11 | C1 |
| D2101 | F5 | D855 | C5 | TPE12 | C2 |
| D2102 | F5 | D856 | C6 | TPE13 | C1 |
| D2103 | F5 | D857 | C6 | TPE14 | C2 |



## Y - BOARD TNP8EY018

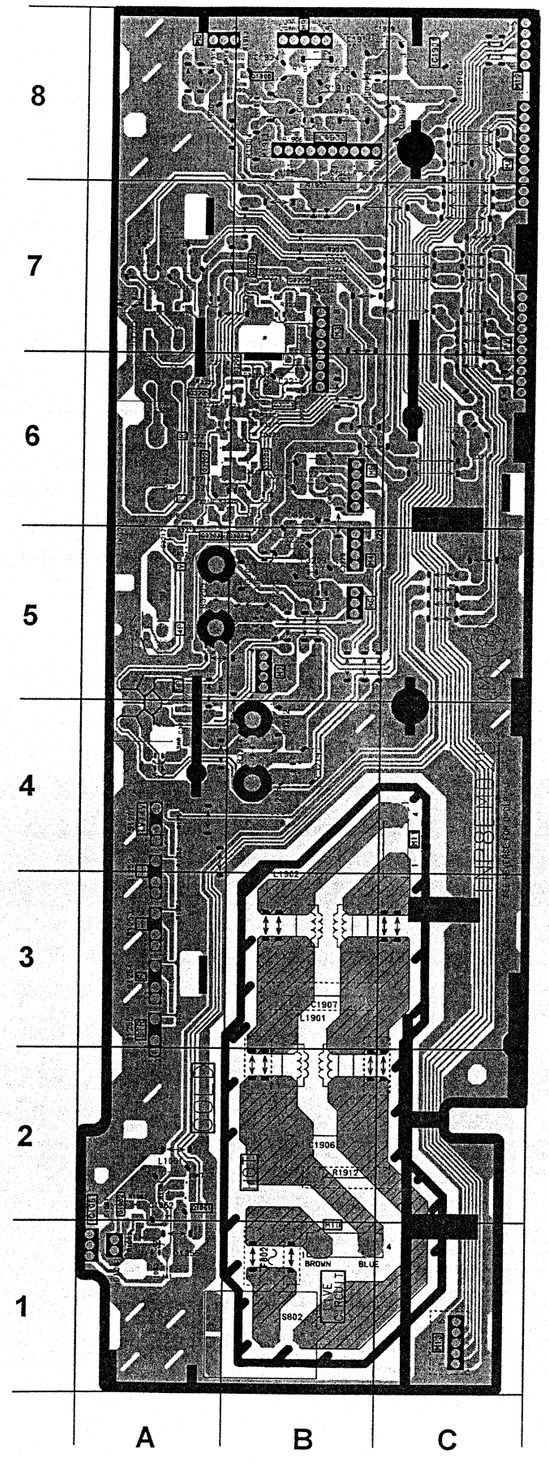
| TRAN'S | |
|---|---|
| Q3352 | A2 |
| Q351 | B3 |
| Q361 | B2 |
| Q371 | C2 |
| Q905 | B1 |
| Q906 | C1 |
| Q907 | B1 |
| Q908 | D1 |
| Q909 | D1 |
| **DIODES** | |
| D3351 | A2 |
| D3352 | A3 |
| D3353 | A1 |
| D3354 | C3 |
| D351 | B3 |
| D352 | B3 |
| D361 | B2 |
| D362 | A1 |
| D371 | D2 |
| D372 | C2 |
| D376 | B3 |
| D377 | A2 |
| D378 | C2 |
| D387 | B1 |
| D901 | C1 |
| D902 | C1 |
| D903 | C1 |
| D907 | B1 |
| D910 | C1 |
| **I.C.'S** | |
| IC351 | A3 |
| IC361 | A1 |
| IC371 | C3 |
| IC381 | C3 |
| **T.P.'S** | |
| TPY1 | B3 |
| TPY2 | A2 |
| TPY3 | C3 |
| TPKR | B3 |
| TPKG | B2 |
| TPKB | C2 |





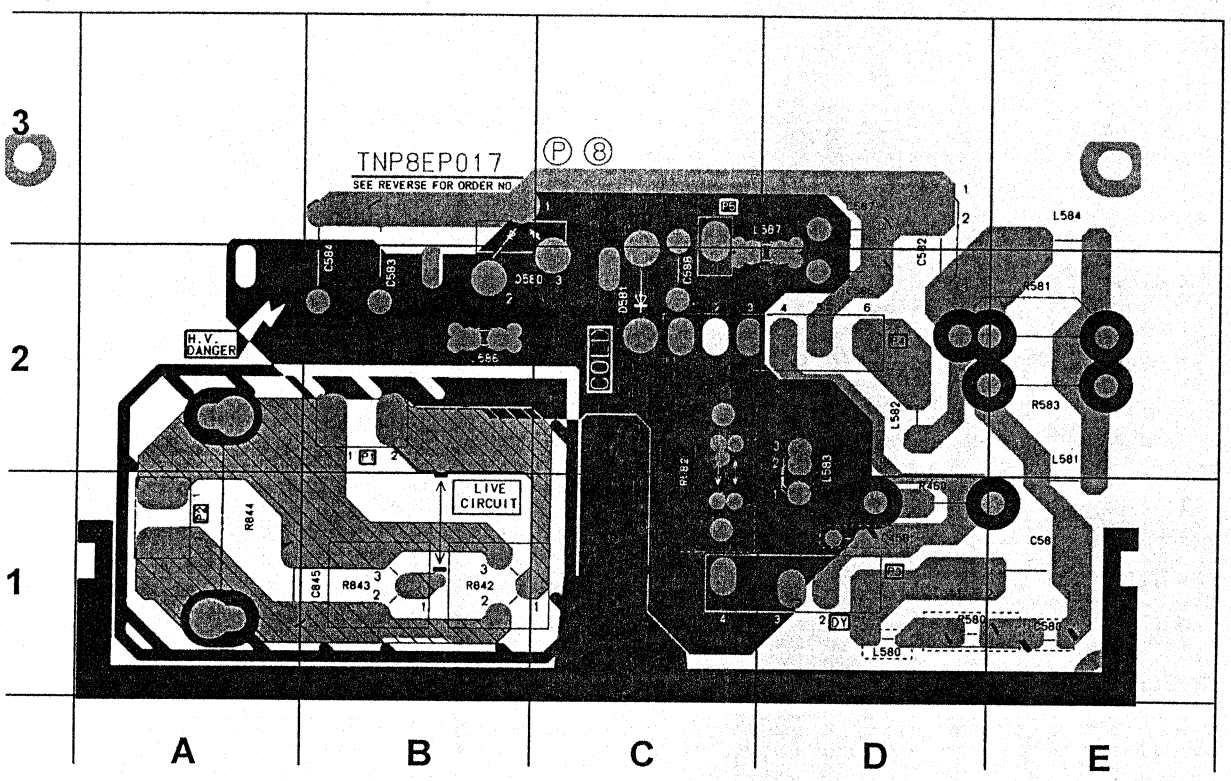

## M - BOARD TNP8EM025

| TRAN'S | |
|---|---|
| Q1062 | A1 |
| Q1900 | B8 |
| Q3201 | B6 |
| Q3202 | A6 |
| Q3203 | A6 |
| Q3204 | B6 |
| Q3205 | A6 |
| Q3206 | B6 |
| Q3207 | B6 |
| Q3208 | B7 |
| Q3209 | B7 |
| **DIODES** | |
| D1055 | A1 |
| D1061 | A1 |
| D3201 | A7 |
| D3202 | A7 |
| **IC's** | |
| IC1061 | A1 |
| IC1900 | B8 |

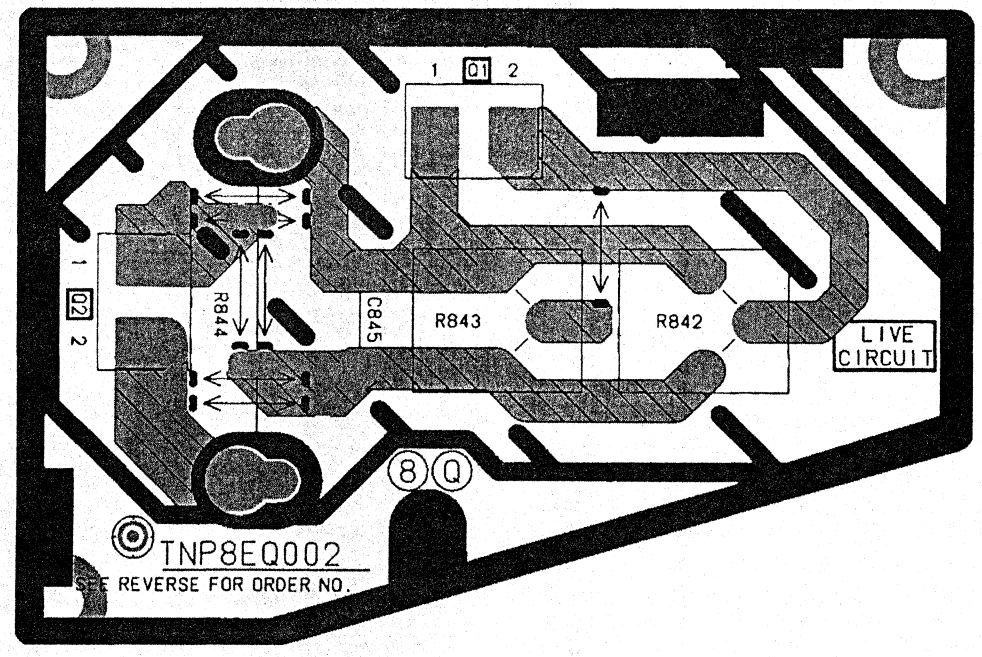


# P - BOARD TNP8EP017

| DIODES | |
|---|---|
| D580 | B2 |

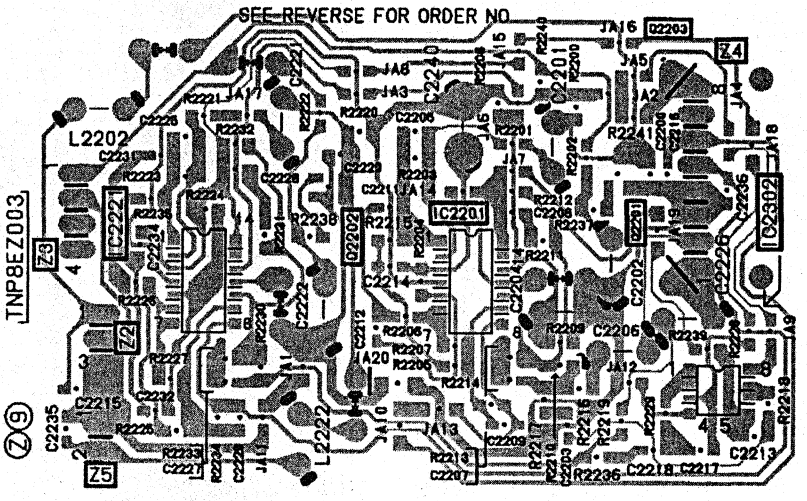


## Q - BOARD TNP8EQ002



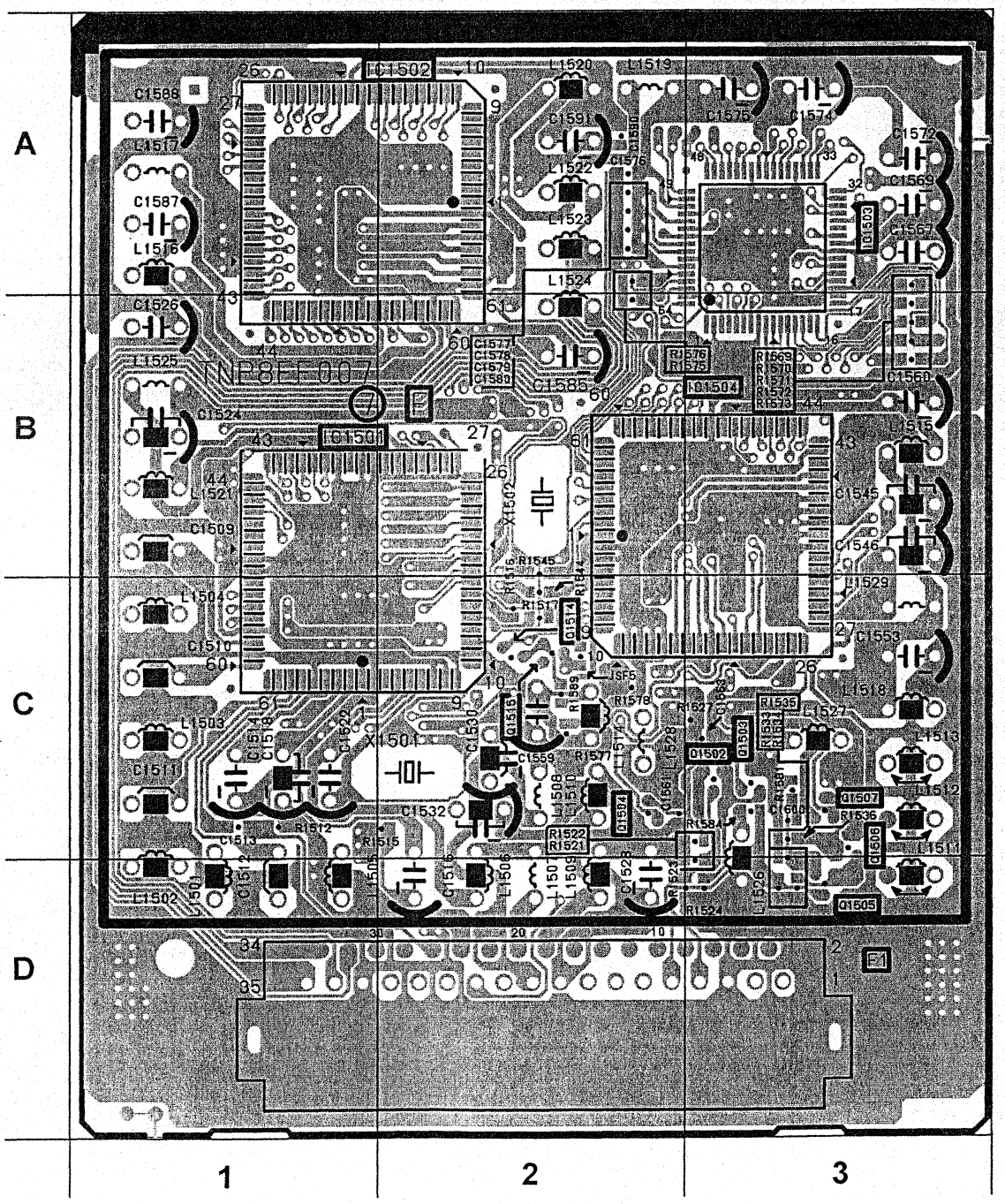

## Z - BOARD TNP8EZ003

| TRAN's | IC's |
|---|---|
| Q2201 | IC2201 |
| Q2202 | IC2221 |
| | IC2302 |



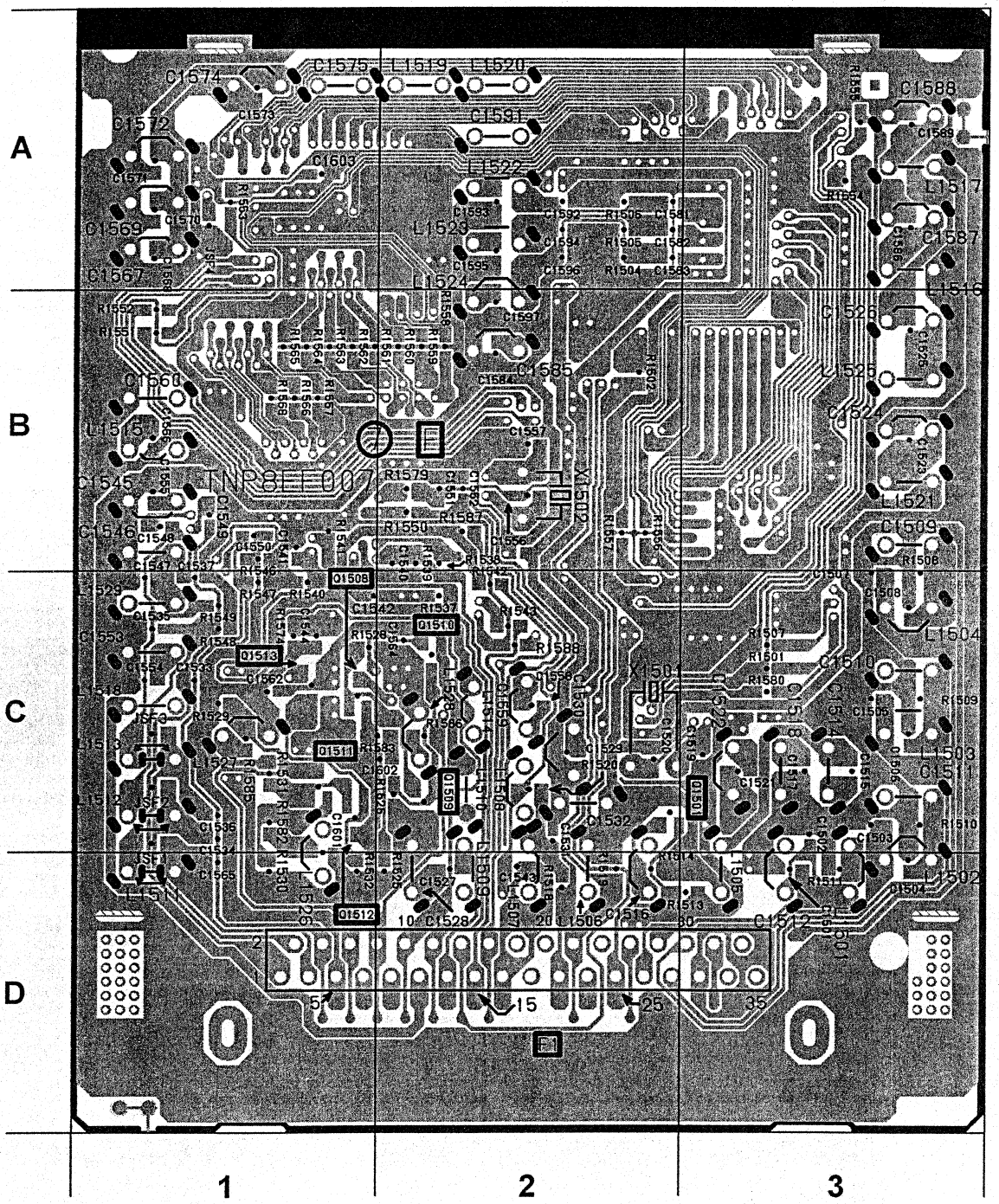
# F - BOARD TNP8EF007

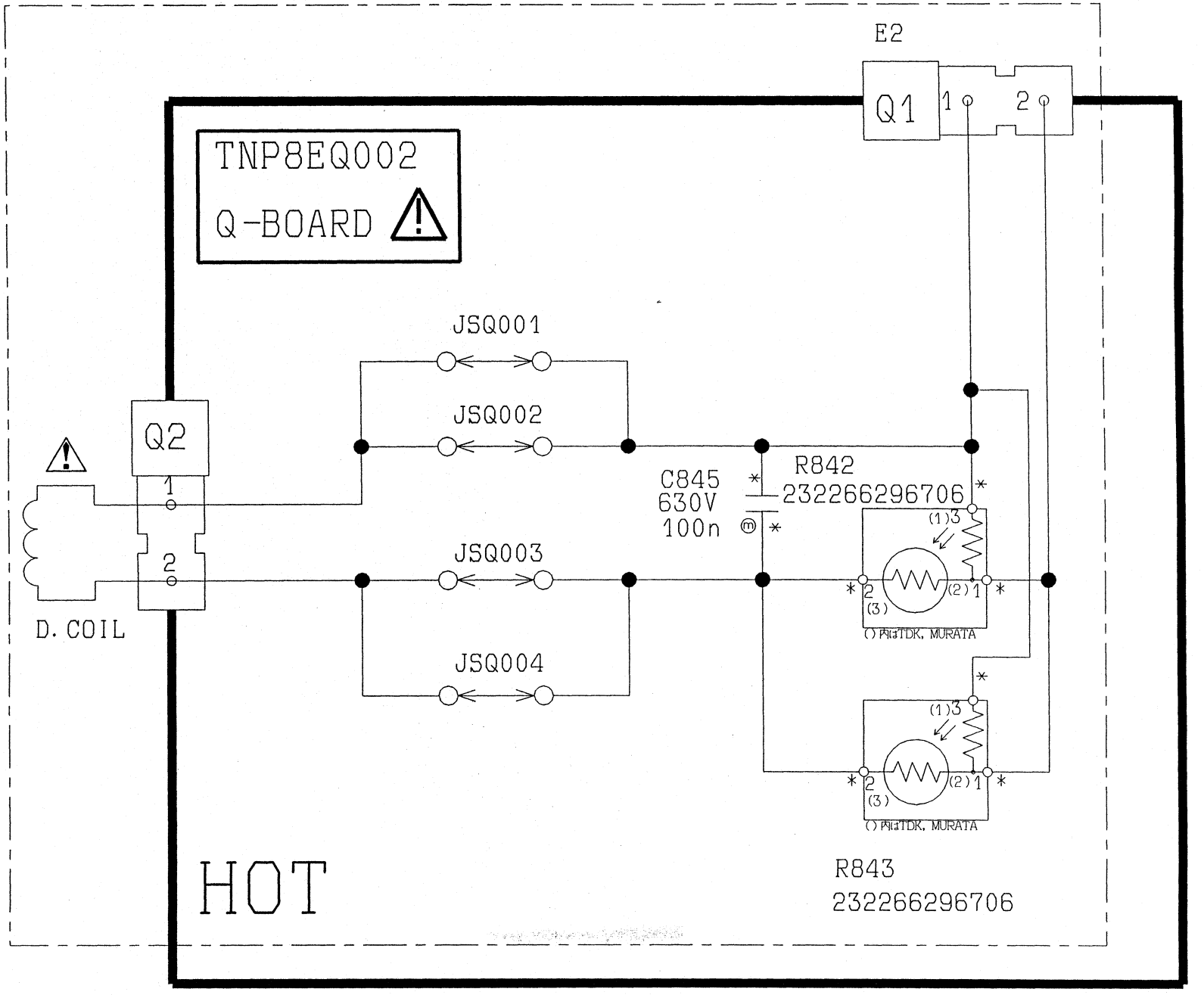
| TRAN'S | | I.C.'S | |
|---|---|---|---|
| Q1502 | C3 | IC1501 | B1 |
| Q1503 | C3 | IC1502 | A2 |
| Q1504 | C2 | IC1503 | A3 |
| Q1505 | D3 | IC1504 | B3 |
| Q1506 | C3 | | |
| Q1507 | C3 | | |
| Q1514 | C2 | | |
| Q1515 | C2 | | |

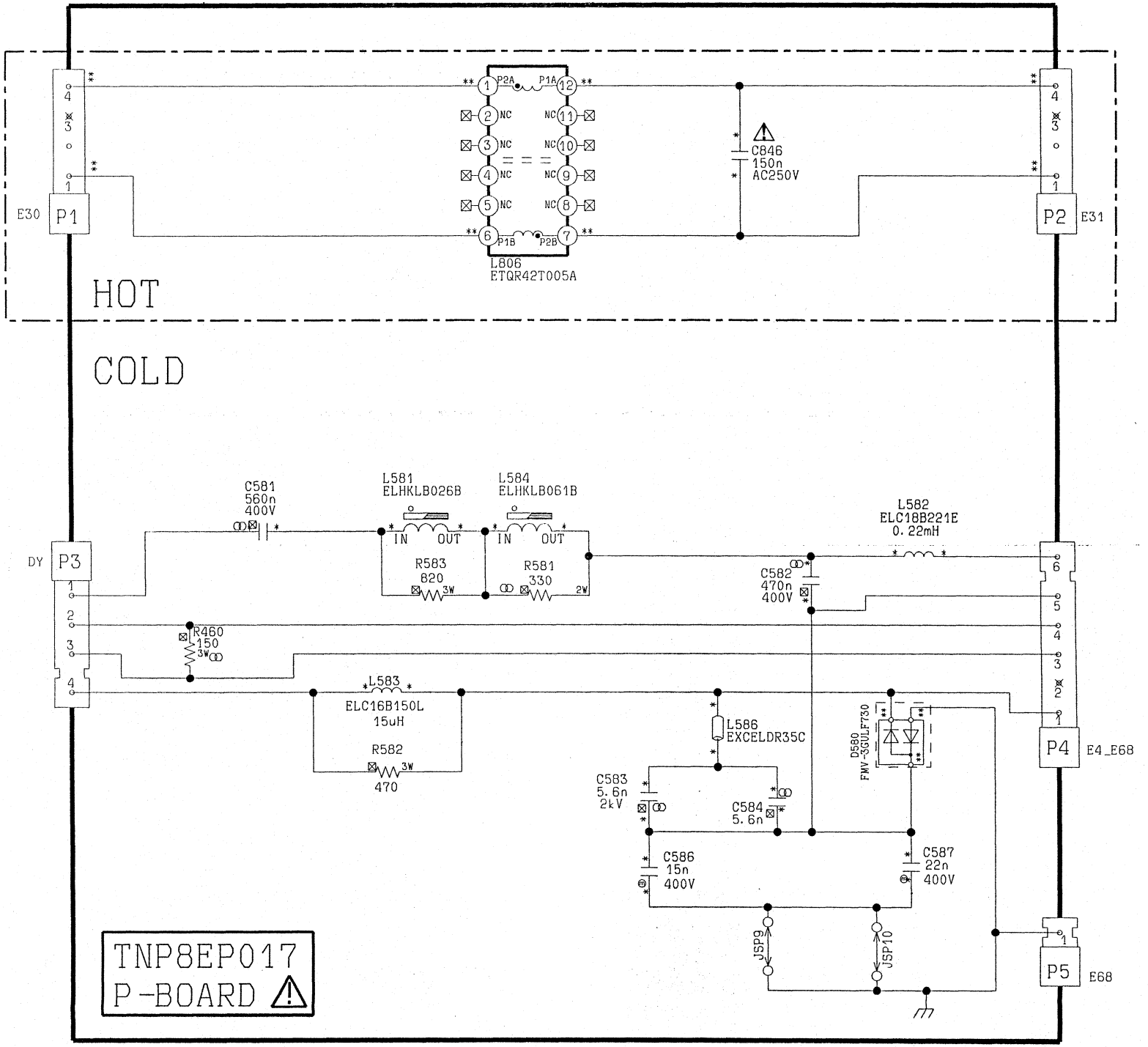


# F - BOARD TNP8EF007

| TRAN'S | |
|---|---|
| Q1501 | C3 |
| Q1508 | C1 |
| Q1509 | C2 |
| Q1510 | C2 |
| Q1511 | C1 |
| Q1512 | D1 |
| Q1513 | C1 |




E2
Q1
1
2
TNP8EQ002
Q-BOARD
JSQ001
JSQ002
JSQ003
JSQ004
Q2
1
2
D. COIL
C845
630V
100n
R842
232266296706
(1)3
(2)1
(3)
() Ma:TDK, MURATA
R843
232266296706
HOT


HOT
COLD
E30
P1
P2
E31
L806
ETQR42T005A
C846
150n
AC250V
C581
560n
400V
L581
ELHKLB026B
L584
ELHKLB061B
IN
OUT
R583
820
3W
R581
330
2W
L582
ELC18B221E
0.22mH
C582
470n
400V
DY
P3
R460
150
3W
L583
ELC16B150L
15uH
R582
3W
470
L586
EXCELDR35C
D580
FMV-3GULF730
C583
5.6n
2kV
C584
5.6n
C586
15n
400V
C587
22n
400V
JSP9
JSP10
P4
E4_E68
P5
E68
TNP8EP017
P-BOARD